

19990321.qrp v01_n402.qrl.990321

Date: Sun, 21 Mar 1999 19:03:30 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1402

QRP-L Digest 1402

Topics covered in this issue include:

- 1) [36127] Re: Digi-stuff on 40.
by wa8rxi@juno.com
- 2) [36128] Old tube rig to QRP???
by "Arch Jenkins" <beaks@westco.net>
- 3) [36129] Re: [36028] What up with these digital hams
by Doug Faunt N6TQS +1-510-655-8604 <faunt@netcom.com>
- 4) [36130] Re: [36060] Re: What up with these digital hams
by Doug Faunt N6TQS +1-510-655-8604 <faunt@netcom.com>
- 5) [36131] 6 Meters
by radioham@erols.com
- 6) [36132] Re: [36079] Re: Digi-stuff on 40.
by Doug Faunt N6TQS +1-510-655-8604 <faunt@netcom.com>
- 7) [36133] Re: Digi-stuff on 40.
by Vic Rosenthal <rakefet@rakefet.com>
- 8) [36134] Re: 6 Meters
by "John J. McDonough" <jjmcd@tm.net>
- 9) [36135] CW Sending - Key Preference
by Fred J Kalt <w2xn@juno.com>
- 10) [36136] Thanks for the info on the So African Keys
by Jeff Grudin <grudin@pacific.vdbs.com>
- 11) [36137] re: Old tube rig to qrp???
by Charles Kadesch <chas@digizen.net>
- 12) [36138] Hints & Kinks - QRP-L [long]
by Chuck Adams <adams@ticnet.com>
- 13) [36139] Re: How good is K2's QSK
by k5zty@juno.com
- 14) [36140] Re: What's going to happen when...
by k5zty@juno.com
- 15) [36141] FOX: Re: FOXii Scores??
by "Paul R. Valko" <prvalko@oakland.edu>
- 16) [36142] Re: What's going to happen when...
by olyellr@iglou.com
- 17) [36143] 10:1 Probe for R/S 22-306 frequency counter
by "George P. O'Connell" <gpocon@wa.freei.net>
- 18) [36144] Re: Hints & Kinks - QRP-L [long]
by k5zty@juno.com
- 19) [36145] Never had that happen before, sale from the dark side.

by Jess Gypin <jessqrp@concentric.net>
20) [36146] Re: What's going to happen when...
by Jess Gypin <jessqrp@concentric.net>
21) [36147] RE: "Found it layin' beside the road"
by aweiss@usd.edu (Ade Weiss W0RSP)
22) [36148] It's an NC20! In a snappy case, too!
by "David Ek" <ekdave@earthlink.net>
23) [36149] RE: 30m Still Wild
by aweiss@usd.edu (Ade Weiss W0RSP)
24) [36150] Re: How good is K2's QSK
by "Kenneth W. Evans" <w4du@bellsouth.net>
25) [36151] Re: Dumb Wire Question (Long)
by George Gingell <k3tks@u1.abs.net>
26) [36152] Balloonists Made it
by RangerSF5@aol.com
27) [36153] WTB: SGC-2020
by Jim <w7ls@blarg.net>
28) [36154] Re:KnightSMiTe Schematic need
by "Zhen Leao" <by2hit@qsl.net>
29) [36155] Australian keys and paddles
by Mercxx@aol.com
30) [36156] DL-QRP-PA english verbal description, how to built (LONG)
by "Peter Zenker" <Peter_DL2FI@csi.com>
31) [36157] Re: 6 Meters
by Chuck Carpenter <w5usj@unicomp.net>
32) [36158] [ForSale-Swap] FS Ham Radio Mags (fwd)
by Chris Trask <ctrask@primenet.com>
33) [36159] Re: Sierra ...
by hw.merz@t-online.de (Hanns W. Merz)
34) [36160] trade
by bkobie@webtv.net (patrick obrien)
35) [36161] Off-Topic: HD troubles
by wb2vuo@juno.com
36) [36162] QRPTTF border op W7TA0 AZ/NV/UT
by Bruce Grubbs <bog@flagstaff.az.us>
37) [36163] Re: How good is K2's QSK
by Michael Gusky <mgusky@bellsouth.net>
38) [36164] hot band!
by crc <crc@io.com>
39) [36165] NC20 kit for sale or trade
by Steve <smann@advi.net>
40) [36166] NC20 problem (section 10 - AFA)
by sda <sda@bellsouth.net>
41) [36167] Re: Old tube rig to qrp???
by Vic Rosenthal <rakefet@rakefet.com>
42) [36168] Re: Hints & Kinks - QRP-L [long]
by w4bws@juno.com
43) [36169] RS HTX-100 10m question

by Richard Sherman <srichard@aldus.northnet.org>
44) [36170] NC20 manual errata
by Joseph Trombino Jr <joebarb@wilmington.net>
45) [36171] NU6SN
by Bruce Rattray <rattray@gpfn.sk.ca>
46) [36172] Re: Old tube rig to qrp???
by Charles Kadesch <chas@digizen.net>
47) [36173] Re: CW Sending
by dave.g0dja@psilink.co.uk (Dave Ackrill)
48) [36174] NC20 panel art available
by "David Ek" <ekdave@earthlink.net>
49) [36175] Clegg 99'er anyone? QRP on 6m
by Gary L Surrency <gsurrency@juno.com>
50) [36176] Re: Hints & Kinks - QRP-L [long]
by K2UD@aol.com
51) [36177] Re: 6 Meters
by K2UD@aol.com
52) [36178] Re: 6 Meters
by James Skalski <jskalski@localnet.com>
53) [36179] Re: Old tube rig to qrp???
by "George T. Baker" <w5yr@swbell.net>
54) [36180] Email for Wayne/Eric at Elecraft
by Bob Hightower <ki7mn@extremezone.com>
55) [36181] Low Power experiment
by "Tom Whiteside" <n5tw@igg-tx.net>
56) [36182] KITES/40m J-Pole: T0000 much wind!!!
by S LYON <sslyon@worldnet.att.net>
57) [36183] Re: CW Sending
by "Ken & Linda Burrough" <ne0c@1st.net>
58) [36184] By golly, I will make time!
by Jim Larsen AL7FS <al7fs@pobox.alaska.net>
59) [36185] Re: CW Sending
by "J. W. (Dub) Thornton" <dub@oklahoma.net>
60) [36186] AW: DL-QRP-PA english verbal description, how to built (LONG)
by "Peter Zenker" <Peter_DL2FI@csi.com>
61) [36187] How to place the transistors at the DL-QRP-PA
by "Peter Zenker" <Peter_DL2FI@csi.com>
62) [36188] 10:1 Probe for R/S 22-306 frequency counter
by "George P. O'Connell" <gpocon@wa.freei.net>
63) [36189] Re: RS HTX-100 10m question
by "Alan Kaul W6RCL" <alan.kaul@worldnet.att.net>
64) [36190] Source for MC1490?
by peter barville <peter@barville.demon.co.uk>
65) [36191] Not qrp/ loan /borrow / buy
by ac5ez@webtv.net (Larry B)
66) [36192] Core Banks Island and the Carolina Boys at play
by DLShips@aol.com
67) [36193] Mueller Electric Co URL

- by "George P. O'Connell" <gpocon@wa.freei.net>
- 68) [36194] Re: Old tube rig to qrp???
- by "John Moriarity" <k6qq@hdo.net>
- 69) [36195] April Magazine articles - -
- by "Mel Evans" <MelGM6JAG@bccscotland.freemove.co.uk>
- 70) [36196] Need QSL info for DX contact
- by N10DL@aol.com
- 71) [36197] What Key do you use
- by Bradford D Bilbrey <bigdawg74@juno.com>
- 72) [36198] Re: NU6SN
- by Jim Lowman <jmlowman@ix.netcom.com>
- 73) [36199] CW question
- by "Ted Williams" <tedw@btinternet.com>
- 74) [36200] Re: RS HTX-100 10m question
- by Duane Alles <w9zm@yahoo.com>
- 75) [36201] Vintage Spy QRP radios/MRCG meeting
- by jaywa5whn@juno.com
- 76) [36202] a little off topic--vcr front ends?
- by "Steve Blatman" <steve@inkspot.net>
- 77) [36203] manual and advice for Tektronix 465M
- by "Steve Blatman" <steve@inkspot.net>
- 78) [36204] Re: [TenTec] Using Shure 444 with Triton IV
- by Steve <smann@advi.net>
- 79) [36205] Atlanticon talk preview #6: "Troubleshooting 101"
- by George Heron <gheron@nac.net>
- 80) [36206] Atlanticon FUN Report 3/21
- by George Heron <gheron@nac.net>

Date: Sun, 21 Mar 1999 00:30:38 -0500
From: wa8rxi@juno.com
To: qrp-l@LeHigh.EDU
Subject: [36127] Re: Digi-stuff on 40.
Message-ID: <19990321.003041.-200787.1.wa8rxi@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

QRPer's

Here is an excerpt from a letter I received 13-January-1996 from
Jim Mortensen, N2HOS - then Editor of the 'Digital Journal'.
He can be found at www.n2hos.com/digital (lotts a PSK31 & Digi stuff).

I quote:

"With regret I must say that the old 'gentlemen's agreements' mean little

today.

Remember, the first thing to go was the agreement to keep packet above 14100, and other digital modes below 14080 so RTTY could have 14080-14100. That's a rather sordid tale. In retrospect, I think it was merely an omen of things to come rather than something to weep about. Just imagine the fun when SSB turns into a digital signal soon... very soon. Where does it go? What kind of signal is it? Who is to keep this 'new' voice mode, by definition a legal digital signal, out of CW's hallowed ground? The flow of technology over takes all of our old definitions."

My take.

There is an agency called the ITU (part of the UN), which divides the world into three regions. A ruling body, in our case the FCC, selects the 'amateur frequencies' and their use. We try to abide by 'gents agreements', which are only a guideline of where and when to operate. Have YOU ever been in a DX Contest (CW or PHONE), RTTY Contest, QRP Contest, etc. I Have :-)) As far as Frequency Allocations are concerned, they are usually fought for at the WARC's (World Administrative Radio Conference). The last GOOD one was 1979. Prior to these get-to-gether's you can VOICE Your opinion to each of the Three Regions' Governing bodies. Be it, ARRL, IARU, FCC, whatever!

73, Rick - WA8RXI Taylor, MI.
LONG LIVE CW!!

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Date: Sat, 20 Mar 1999 17:16:59 -0500
From: "Arch Jenkins" <beaks@westco.net>
To: "qrp-1" <qrp-1@Lehigh.EDU>
Subject: [36128] Old tube rig to QRP???

Message-ID: <000001be7333\$f0184000\$1bdc0bd0@default>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Gang, anyone out there have any info/ideas on "converting" one of the old classic tube rigs for QRP only use? I read once about someone that had taken the final tubes out of a Kenwood TS520 and modified it for QRP output from the driver tube but not sure what all would be involved in such a project but the idea sure interests me. There are lots of very nice classic tube rigs that show up at hamfests with weak/bad finals and would be a blast to put back on the air for QRP use. It just seems like a waste though to buy new finals to put in one and then turn the power down to the QRP level, if there was an easy way to eliminate the finals there would be a gold mine of rigs for use. Also, they just look neat all lit up!!! Anyone have any suggestions/thoughts on the subject?

Arch N8EAG

Fairmont, WV

Date: Sat, 20 Mar 1999 16:48:04 -0800 (PST)

From: Doug Faunt N6TQS +1-510-655-8604 <faunt@netcom.com>

To: bigdawg74@juno.com

Cc: qrp-1@Lehigh.EDU

Subject: [36129] Re: [36028] What up with these digital hams

Message-ID: <199903210048.QAA20378@netcom8.netcom.com>

It's an international RTTY contest, and 7040 is also the RTTY DX calling frequency. It's been said before, but 40M is much smaller overseas, and the region 1 and 3 ops only have 7035 to 7045 for digital modes. People were working a lot of Europeans last night on 40M.

There's some controversy about where PSK31 will land, but it's only as wide as 30wpm CW, so there's some belief it can share that space.

73, doug

Who was on 7035 to 7045 last night, and will be again tonight.

Date: Fri, 19 Mar 1999 19:41:42 -0700

From: Bradford D Bilbrey <bigdawg74@juno.com>

I wanted to have a few QS0's tonight so I tuned to 14.060 and what do I

hear, some sort of digital communications, never heard it before (maybe PSK31?) anyway I jump down to 7.040 and somebody is sending rtty. So I fire up the little rtty decoder I got and it's KK50Q calling CQ. What's up with that, isn't there enough bandwidth to work than right on top of a calling freq? Is this just belligerence or ignorance or both? Or is it my problem, not being tolerant? I don't know, I'm just fired up right now.

Sri abt that
Brad
KE7MU

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Date: Sat, 20 Mar 1999 16:54:49 -0800 (PST)
From: Doug Faunt N6TQS +1-510-655-8604 <faunt@netcom.com>
To: mikemo@ibm.net
Cc: bigdawg74@juno.com, qrp-1@Lehigh.EDU
Subject: [36130] Re: [36060] Re: What up with these digital hams
Message-ID: <199903210054.QAA20891@netcom8.netcom.com>

Got to say, I listen to the beacons regularly, and the only QRM I've heard was from a slow-speed CW op on 15M.
Many people are ignorant of the beacon system.
73, doug

Date: Sat, 20 Mar 1999 08:13:09 -0500
From: Michael Maiorana <mikemo@ibm.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Bradford D Bilbrey wrote:

>

> I wanted to have a few QS0's tonight so I tuned to 14.060 and what do I
> hear, some sort of digital communications,

Even worse are the guys that do digital right on top of the beacon frequencies. ARGH! I guess I should get their call and send them a friendly note asking to move their frequency a little. But then again that just may make it worse, you know how people get....

Mike M. KU4QO
Palm Harbor,FL

Date: Sat, 20 Mar 1999 19:59:28
From: radioham@erols.com
To: qrp-l@Lehigh.EDU
Subject: [36131] 6 Meters
Message-ID: <3.0.1.16.19990320195928.34af5690@pop.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Just got a MFJ-9406 and am having some trouble finding SSB activity on 6 meters. I have the net schedules off the SMIRK homepage, but there doesn't seem to be much in the FM18 grid square area - Fairfax, VA. I do hear the W3VD beacon, but that's about it. I've called CQ a lot on both 50.125 and 50.200 and no takers. I did hear one side of the end of a QSO today, NY station, so I know I am receiving OK, but he did not hear me (at about 7 watts). Anyone in the Northern VA, or Wash, DC area on 6 SSB??

17 meters was really open today - for the first time ever for me, a DX station, G3FIC, tailended my QRP signal on 17 CW. And some of us still operate as we get old - had a short QSO with Harold, W6JER - VA to CA with 5 watts SSB on 17 - he is 91.

And to those of you who are sending in your applications for QRP ARCI awards, keep them coming. I mailed four awards today, with more to go out on Monday. Looks like there is an increase in QRpppp activity - one QSO was at .0005 watts and several under a watt.

If anyone knows of 6 meter SSB nets in the FM18 area, please let me know. Tnx.

72/73,

Steve, N4EUK
Reston, VA
QRP ARCI Awards Manager

Date: Sat, 20 Mar 1999 17:05:52 -0800 (PST)
From: Doug Faunt N6TQS +1-510-655-8604 <faunt@netcom.com>

To: Macstein@aol.com
Cc: qrp-1@lehigh.edu
Subject: [36132] Re: [36079] Re: Digi-stuff on 40.
Message-ID: <199903210105.RAA22132@netcom8.netcom.com>

There are PACTOR MBO stations at 7036.9 in 7.039.9, in Trinidad
7.037.9 in Bolivia, and 7037 and 7041 in South Africa.
These stations, or people trying to reach them are likely what you're
hearing.

73, doug

Date: Sat, 20 Mar 1999 11:20:42 EST
From: Macstein@aol.com
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 3/20/99 10:23:58 AM EST, plburbank@kih.net writes:

snip

> It's not ritty, just bursts that often go on for hours,
> and often sounds like the same station camped out on the frequency.
> In a QSO with Ed, WE6W, I mentioned the "digi-crap QRM" and he
> replied "What digi-crap?" so evidently it is a problem only on
> this coast.
> Anybody else hear this stuff?
> I'm tempted to invest in the hardware to find out what "BrrrrrAAA
> Pppppp????...pause... BrrrrrAAAPPP??" for 2 or 3 hours means.
> Is it a query from another dimension??

snip

I've heard this and had the same experience -- seemed worse on my end of the
QSO with a West Coast station. I've found that DSP and a notch filter helps,
but during one fox hunt I actually had to take my phones off and lay 'em on
the bench as I reached for the gain dial. LOUD while I was straining for the
Oregon fox...ouch. "BrrrrrAAAPPP" is a good description.

-MAC-
KF4KSM
Odessa, FL

Date: Sat, 20 Mar 1999 17:14:13 -0800
From: Vic Rosenthal <rakefet@rakefet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [36133] Re: Digi-stuff on 40.
Message-ID: <36F447E5.217665C2@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Pete Burbank wrote:

>
> I mentioned the "digi-crap QRM" and he
> replied "What digi-crap?" so evidently it is a problem only on
> this coast.

I can assure you that it is heard on this (Left) coast also; on 7.040 and other frequencies. In fact, last night I heard some on 14.005. I often hear many kinds of noises that are obviously man-made digital signals, but of course I can't tell exactly what kind by ear. However, I wouldn't be surprised if some of this stuff turned out to be non-amateur in origin.

73,
Vic, K2VCO
Fresno CA

Date: Sat, 20 Mar 1999 20:15:56 -0500
From: "John J. McDonough" <jjmcd@tm.net>
To: <radioham@erols.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [36134] Re: 6 Meters
Message-ID: <001901be7338\$5d6c6420\$010044c0@mdp23b>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Steve,

I get the impression that 6 is open a lot, but people just aren't listening. Anytime there's a VHF contest - it's open!

If you keep an eye on:

<http://raven.cybercomm.net/~slapshot/dxing/50prop.html>

you may be able to catch something.

72/73 de WB8RCR <http://users.tm.net/jjmcd/>

didileydadidah QRP-L #1446 Code Warriors #35

Date: Sat, 20 Mar 1999 20:29:45 -0500
From: Fred J Kalt <w2xn@juno.com>
To: qrp-l@lehigh.edu
Subject: [36135] CW Sending - Key Preference
Message-ID: <19990320.202946.-737431.1.w2xn@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi,

I want to thank all who responded as to their preference with the type of key they use on their QRP CW rigs. I will tally them and give a quick report to this reflector to let everyone know what responses I have gotten.

I you would still like to reply I won't tally them for a day or two yet.

Thanks again.

fred w2xn

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Date: Sat, 20 Mar 1999 17:37:35 -0800
From: Jeff Grudin <grudin@pacific.vdbs.com>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [36136] Thanks for the info on the So African Keys
Message-ID: <36F44D5F.5BC6C451@vdbs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Thanks to everyone who gave me info on the So African Keys. From the info I was able to find a web address. This page has pictures and ordering info.

<http://home.global.co.za/~lieberma/lar0003.htm>

Thanks again.

--

73 de AC6KW <<mailto:grudin@vdbbs.com>>
Jeff Grudin, DVM Web Add: <http://www.vdbbs.com/~grudin>
Ocean Animal Clinic / Cat Clinic of Santa Cruz - Santa Cruz, California
Norcal QRP #1292 QRP-L #16 ARS #351 AR Qrp #131

Date: Sat, 20 Mar 1999 20:04:48 -0800
From: Charles Kadesch <chas@digizen.net>
To: qrp-l@lehigh.edu
Subject: [36137] re: Old tube rig to qrp???
Message-ID: <36F46FE0.57E4@digizen.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

My vintage QRP rig is a Meissner Signal Shifter EX (circa 1946). Band switched, 6V6 vfo to an 807 final runs 7 watts max (5 watts with ease). Darken the room and the green "magic eye" tuning and glowing tubes carry you back in time. No conversion or mods necessary- a vintage QRP rig. I pair it with a BC348 or HQ129X receiver. Total cost: less than \$100 for the pair at hamfests.

-72 de Chas W3KC-

Date: Sat, 20 Mar 99 21:10:08 -0500
From: Chuck Adams <adams@ticnet.com>
To: qrp-l@lehigh.edu
Subject: [36138] Hints & Kinks - QRP-L [long]
Message-ID: <E100Xnk-0006pW-00@smtp.ticnet.com>

Gang,

Thanks to the person asking about the wire size.
There is no such thing as a dumb question.

Here is what got me started on this project, which took all of 5 minutes to think and do.

Problem: Someone gives you a length of unmarked wire or you obtain same from a transformer or other critter. How do you determine the wire size?

Answer: Someone else said get a micrometer and measure the diameter and go to the chart in the ARRL Handbook. Hmmm. I'd bet a dollar to a hole in a donut that more than 50 per cent of this group does not own a micrometer. I won't take the bet now 'cuz I ain't got that much money for the number of people that would jump and say they'd take the bet. :-) It would be an interesting stat for the stat takers in the group..... Count me as a no I don't have a micrometer. :-)

So here is a secret technique passed on only to the elite few, so don't pass this on. Keep it to yourself. It is the secret QRP-L handshake. :-) The one of many secrets only known to QRP-Lers..... :-) ;-)

Go to your toolbox and take out the Craftsman #0 Phillips screwdriver. The one that you use on the original NC20 case screws. ;-) Now I used 1/2" masking tape that I had for watercolors, but you can use whatever you can find for the tape in the following. Just make sure you can take it off the screwdriver without ruining the thing. They aren't cheap.

Now take the tape and put several layers (about 8 or so) to make a straight edge on the shaft near the handle. Now go find a ruler and make another edge (clearly nothing between the two edges) exactly 1.00" away from the other on the screwdriver shaft. Also 8 or so layers of tape to make an edge. Both edges on the side closest to the other tape edge. These edges will serve two purposes: 1- keep wire from sliding around and 2- provide accurate measurement of 1" distance.

I found several plastic rulers around the bench and the toolbox and the pencil/pen box and you know what? They all agreed pretty well on the distance!! Standards do help the human race.

OK, take the wire, the new patented K5F0 wire gauge measuring device (tm - patent pending) above, your best magnifier/glasses/..., your best light, a quiet place away from pets, kids, and other human beings and beasts. I can tell you from experience the next part is about as difficult as winding toroids because you can not stop and answer

the phone, etc.

Starting at one end of the clear 1" distance of the screwdriver which is now the patented K5FO wire gauge measuring device start winding close turns (careful not to leave gaps or overlap the wire and not to stretch the wire by pulling too hard) and counting the turns. Do this until you fill up the whole distance without stopping. For #28 wire it takes about 2 feet of wire, so you will sacrifice a segment of wire to do this.

OK, you did it! Great. Immediately write down the number. You might think it's your QRP-L #, FISTS #, G-QRP #, or something else, so don't wait - do it now.

I know that you won't have this table around and you might have some other wire that takes fewer or more turns so let me tell you how to get this table. Go to the ARRL HB, Chapter 30, page 31 of the later handbooks and take the wire diameter, enter it into the calculator and hit the "1/x" button. That is the number of turns per inch!!

Look at the following table that I did for the most used (I think) gauges:

SWG	DIAM	#T/in
20	0.036"	27.8
22	0.028	35.7
24	0.022	45.5
26	0.018	55.6
28	0.0148	67.7
30	0.0124	80.6

I went to the parts bin and got a roll of magnetic wire that I got at HamCom some years back. On the roll was:

\$4.05 506' #28 Coax Connection

I took a few feet and went to the couch with the now patented K5FO wire gauge measuring device and proceeded to wind. I get 68T!!! Some days are diamonds.

OK, let me make a few points.

1. You know why you can't stop? If you lose your count,

if you lose the tension, or anything else happens you have to redo everything. Been there done that. If you let go of one end some turns will unwind. And I don't want that kind of language on QRP-L 'cuz I know what you're gonna say.

2. After you have used the wire to wind and count turns you can throw the wire away. I'm serious. It's the Heisenberg Uncertainty Principle at work. You have affected the wire size, etc. It won't be the same and don't trust it for any of your valuable projects.
3. This 1" distance includes the enamel or other coating but hey you can see from the counts between wire sizes that a few mils (1 mil = 0.001 in) either way isn't all that critical. IMHO. This is not rocket science here gang.....

The technique itself isn't new, i.e. conversion of distance to diameter for wire size close wound. But I thought a second and found the one thing that most of us have, either a drill bit or a screwdriver of relatively small diameter so that it doesn't take a lot of wire to get the measurement done.

I chose 1" as distance to make the math simple and increase the accuracy of the measurement. Mileage may vary as some manufacturer quality control issues at stake here.

Hope this helps sometime during a project late at night when you are trying to figure out wire size.

OK, two other things.

1. Several sent me email asking about the 1.4V limit peak-to-peak into 50 ohms and what power level is that? I haven't answered yet. I'll let you go to the ARRL HB and figure that one out. It isn't difficult and you will learn. To make the math easier take 1.414Vp-p as an easy number to use with the calculator.
2. Another thing that I have done, but it will wait to share. People have beat to death the issue of toroids, Q, number of turns, etc.

So, let me pose the following question. Give everyone 24 hours and then you are allowed to post your answers and let's hope you don't get it wrong 'cuz you will hear from the graders out in the audience.

Given a toroid, e.g. T37-2 or T37-6. What is the maximum number of turns that you can get of each wire size without overlap of turns or multiple levels? This is a geometry problem in three dimensions but can be simplified to two dimensions.

Can you use the dimensions of the toroid to calculate the length of wire needed to wind N-turns? Do this instead of winding the coil and then unwinding and physically measuring the length. I find that people in kit instructions ALWAYS specify a length that is too long. I know why, but they might consider putting in an experts guide to the numbers. :-) ;-)

And after you have calculated this take a toroid and completely fill it and see what you get..... Theory and real world have to match if you do it right. At least most of the time it should.

And can you calculate the Q from all this information or data that can be derived from the above and other tables?

OK, back to the usual flame wars. Take time to get on the air and be friendly.

dit dit

--

Chuck Adams K5FO adams@ticnet.com CP-60
<http://www.ticnet.com/k5fo>

Date: Sat, 20 Mar 1999 21:02:29 -0600
From: k5zty@juno.com
To: fifield@pacbell.net
Cc: qrp-1@Lehigh.EDU
Subject: [36139] Re: How good is K2's QSK
Message-ID: <19990320.212448.10262.0.k5zty@juno.com>

Doesn't this radio have any warts?? All I have heard is unabashed adoration for this radio when any question has been asked or any comment has been made about it. 100 beta radios out and ZERO problems?? It sounds too good to be true.

Bill, K5ZTY
Houston, TX
k5zty@juno.com

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or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 20 Mar 1999 21:24:01 -0600
From: k5zty@juno.com
To: rwc@frii.com
Cc: qrp-1@Lehigh.EDU
Subject: [36140] Re: What's going to happen when...
Message-ID: <19990320.212448.10262.2.k5zty@juno.com>

Work the lower bands and keep on pounding.

Bill, K5ZTY
Houston, TX

On Sat, 20 Mar 1999 08:01:55 -0700 Rod Cercone <rwc@frii.com> writes:
: What will it be like when the Sun spot
>cycle is
>at a low point?

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or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 20 Mar 1999 22:28:56 -0500 (EST)
From: "Paul R. Valko" <prvalko@oakland.edu>
To: Jim NOUR <n0ur@yahoo.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [36141] FOX: Re: FOXii Scores??
Message-ID: <Pine.OSF.3.95.990320222345.10972A-100000@saturn.acs.oakland.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 20 Mar 1999, Jim NOUR wrote:

> I've been away from the list the last few weeks. Has
> the Foxii scores been posted yet?? If so could someone
> forward them to me?

They are not ready yet. Still holding out for a log or two.

There's no big rush... you guys know how many fox you worked (I got four).

Assuming I get all the final logs in, I was thinking of giving out the final scores at the QRP Banquet... or maybe what would be better, would be Thursday nite at the Daze Inn - as not banquet attendees will care about the foxhunt.

73 es CUL!

73! =paul= W8KC
Collector of Ten*Tecs and other fine plastics
<<http://www.acs.oakland.edu/~prvalko>>

Date: Sat, 20 Mar 1999 22:53:51 -0500
From: olyellr@iglou.com
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [36142] Re: What's going to happen when...
Message-ID: <3.0.5.32.19990320225351.0091b480@pop.iglou.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 09:24 PM 3/20/99 -0600, k5zty@juno.com wrote:
>Work the lower bands and keep on pounding.
>

To everything, turn, turn, turn,
There is a season, turn, turn, turn,
And a time to every purpose under heaven

Byrds, 1965

de AF4LQ

Date: Sat, 20 Mar 1999 19:59:00 +800
From: "George P. O'Connell" <gpocon@wa.freei.net>
To: qrp-1@Lehigh.Edu
Subject: [36143] 10:1 Probe for R/S 22-306 frequency counter
Message-ID: <36f46e84.13cfd.0@wa.freei.net>

I have almost completed my OHR 100A 40 Meter transceiver kit. I have just bought a R/S 22-306 frequency counter for alignment purposes for this and future kit building. The instructions say I need a 10:1 "for this and all measurements".

Is this something I can buy or do I make it. Closest I could come is in ARRL Handbook which shows a probe with 1 M resistor and variable capacitor but isolates circuit from oscilloscope (not frequency counter). Any help greatly appreciated.

72s

George, N7EQH

SST20/40, SW40+, Hw8, Works in progress NORCAL 40A, Sierra and OHR A

Date: Sat, 20 Mar 1999 22:01:39 -0600
From: k5zty@juno.com
To: adams@ticnet.com
Cc: qrp-1@Lehigh.EDU
Subject: [36144] Re: Hints & Kinks - QRP-L [long]
Message-ID: <19990320.220302.10262.4.k5zty@juno.com>

>2. After you have used the wire to wind and count turns you can
> throw the wire away. I'm serious. It's the Heisenberg
> Uncertainty Principle at work. You have affected the wire
> size, etc. It won't be the same and don't trust it for any
> of your valuable projects.
>

Is this one of those April fool rules? We're talking about salvaging used wire here in the first place. If the enamel is still good what else could be wrong?

Did Hiesenberg know Rube Goldberg?

Bill, K5ZTY
Houston, TX
k5zty@juno.com

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or call Juno at (800) 654-JUNO [654-5866]

Date: Sat, 20 Mar 1999 21:18:38 -0700
From: Jess Gypin <jessqrp@concentric.net>
To: qrp-l@lehigh.edu
Subject: [36145] Never had that happen before, sale from the dark side.
Message-ID: <36F4731E.A0FD7C4F@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I am sure that you have all been there. Saw something come up for sale on the list that you wanted, only to find out that someone had beaten you out because they saw it and replied 10 seconds after posting. I was always one of the late ones. Not this time.

Saw something come up for sale when I was on line and answered right away. Minutes after it was posted. The posting did not say random, or anything else about terms of the sale.

I waited for several days and did not hear anything. I sent an email that said something like "What's up? Have not heard anything. Did you get my email? Let me know" and this person replied the next day to say that they had signed on to send an email confirming that I had been first and that until he had read the other email, was going to tell me that I had gotten the item. Then proceeded to tell me that he did not like the "tone" of the email and that he would sell it to someone else.

This, IMHO, is really not in the ham spirit and not gentlemanly at all. I would not take the item now. I am a kind and helpful person, having sold and given away many items on this list without incident until now. I was offended and hurt.

My point is this. Please, if you are selling something, respond to the person in a timely fashion. And for heavens sake! don't dangle the carrot in front of the person's nose and then snatch it away with an insult!

I hope that this will make others think twice about the "ethics" involved in ham radio and especially on this list.

Jess AE0CW ;-(

--

Jess NOTFI <>> now AE0CW Ask about the fish!
<http://www.concentric.net/~jessqrp> Personal Home page
<http://qsl.net/n0tfi/bug.html> Bug Stories

Date: Sat, 20 Mar 1999 21:22:12 -0700
From: Jess Gypin <jessqrp@concentric.net>
To: rwc@frii.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [36146] Re: What's going to happen when...
Message-ID: <36F473F4.BDF071AB@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

It will be just as much fun as now. I was in there and starting during the low last time and worked all over the country and got to DXCC on 40 meters QRO and then learned the joys of QRP. Then made it to 100 worked on 30 meters QRP during the low in about 10 months of casual operating. It will be fine and fun no matter the sun spots, and more of us that got sucked in during the high numbers!

Rod Cerkoney wrote:

> ...the Sun-spot cycle is on the decline?
>
> Folks:
>
> Got to thinking, right now we are all have a lot of fun at QRP levels, with
> very simple equipment. But, the spots are with us. For those who have been
> around for a cycle or two: What will it be like when the Sun spot cycle is
> at a low point?
> ---
> 72/3 NØRC
> Rod Cerkoney, QRP-L #1764.
> Fort Collins, CO
> da di dah

--
Jess NØTFI <><
<http://www.concentric.net/~jessqrp> Personal Home page
<http://qsl.net/n0tfi/bug.html> Bug Stories

Date: Sat, 20 Mar 1999 22:15:01 -0600 (CST)
From: aweiss@usd.edu (Ade Weiss W0RSP)
To: qrp-l@lehigh.edu
Subject: [36147] RE: "Found it layin' beside the road"
Message-ID: <199903210415.WAA10013@sunburst.usd.edu>

Hi gang -- I had the same experience -- only a 1/2 mile tho! Got to FL back in 1988 in Feb, and had the 90ft trees behind the cabin -- next day out for a bike ride and became conscious of this blue shimmer going on forever beside the road in the grass. Nicely unwound in a straight line. Boy that's a lot of rope. Did the trick for a 300-ft longwire up about 80ft -- what an antenna! + the FL QTH shooting right out over the ocean. OK's and YO's and other EU were waiting in line to work me on 80m cw!

I still have a load of that stuff left.

Fortune smiles on QRP'rs part of the time!

72, Ade

Date: Sat, 20 Mar 1999 21:20:52 -0700
From: "David Ek" <ekdave@earthlink.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [36148] It's an NC20! In a snappy case, too!
Message-ID: <000301be7352\$367b10e0\$06a4fc9e@davidek>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Okay, okay, I know some of you guys are sick of "I finished my NC20!" postings. Sorry. Delete now.

But, I finished my NC20! Well, not really. Mine also exhibits the slight chirp, so I'll be futzing with that next chance I get. But, it puts out the 5 watts I ask of it, has a very sensitive receiver, and seems to be a fine little rig. Lots of fun building it.

Part of my day was spent on finishing the case. I used Micrografix Windows Draw to lay out a panel for the front and back. Then I printed it to the photo-quality inkjet paper (you know, the real glossy stuff) using my HP 722C inkjet printer and used a spray adhesive to attach it to the front and

rear parts of the case. After using an x-acto knife to trim it to size and cut the holes, everything looks slick! Used some clear spray shellac as an overcoat for protection. The top and bottom are painted a light gray. All in all, it looks pretty snappy! (If anyone would like the layout, let me know--be glad to share it. I can export to a few other formats).

So, soon as I get a chance to choke the little chirp, this baby's going on the air!

72 de Dave AB0GO
Colorado Springs

Date: Sat, 20 Mar 1999 22:20:19 -0600 (CST)
From: aweiss@usd.edu (Ade Weiss W0RSP)
To: qrp-1@lehigh.edu
Subject: [36149] RE: 30m Still Wild
Message-ID: <199903210420.WAA11022@sunburst.usd.edu>

Hi gang: boy, 30m is still going strong here in SD. Have been hearing some QRP'rs in there calling and working DX. Doc K0EZV has been working'em, and WA2NFF did OM1LA at least -- N5JI and WJ7H and I had nice QSO's after the DX we were calling QRT'd. 30m has been as quiet as any band I've ever heard this week. Just wish I had a better antenna -- a bunch of QRZ's asking me to repeat my call in several shifts. Great ears -- ES1WN, SM3EVR, T30R among others.

Then, last nite, what every QRP DX'r looks forward to -- a 2-way QRP QSO with DX. Sam, V31GX popped up and we had a nice solid 10-min QSO. It's the best of QRP as far as I am concerned!

So, hey, do 10m in the day, and shift to 30m at night. Best of both worlds.

72, Ade

Date: Sun, 21 Mar 1999 00:25:05 -0500
From: "Kenneth W. Evans" <w4du@bellsouth.net>
To: k5zty@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [36150] Re: How good is K2's QSK
Message-ID: <36F482B1.9D903E0F@bellsouth.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Bill & Gang,

I am a beta tester. It took me about 40 hours to build the radio. As far as warts, I have not found one. Yes, there were some circuit board pads that needed to be cut - but those will be fixed in the production run. In doing the beta testing, we did suggest some changes to the instructions to make the assembly even simpler. In addition, based on Beta tester feedback, Wayne and Eric have made changes to the firmware and as well as some of the AGC and S-meter circuitry. But all of this made a great radio even better.

I think they spent a year developing and testing before they got it to the hundred of us that did the beta test. So it is probably the most thoroughly tested rig to hit the market.

I have no interest in Elecraft other than one of being a very satisfied customer.

Ken

W4DU

k5zty@juno.com wrote:

> Doesn't this radio have any warts?? All I have heard is unabashed
> adoration for this radio when any question has been asked or any
> comment
> has been made about it. 100 beta radios out and ZERO problems?? It
> sounds too good to be true.
>
> Bill, K5ZTY
> Houston, TX
> k5zty@juno.com
>
> _

Date: Sun, 21 Mar 1999 00:46:11 -0500 (EST)

From: George Gingell <k3tks@u1.abs.net>

To: QRP List <qrp-l@Lehigh.EDU>

Cc: G-QRP Club E-mail Reflector <gqrp@onelist.com>

Subject: [36151] Re: Dumb Wire Question (Long)

Message-ID: <Pine.BSI.3.96.990320235137.29463A-100000@u1.abs.net>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Well, Actually it isn't a DUMB Question if you don't know the answer.

Here are a couple of suggestions that will help. First all wire is measured with either a Circular Wire Gauge or a Caliper.

The measurements for various wire Gauges can be found in the ARRL Handbook, the RSGB Handbook, The Electronic Data Book for Hombrewers and QRPers (Paul Harden, NA5N @ \$ 20.00 U.S. plus Postage) Shameless advertisement for book that belongs in the library of everyone on this list. :^)

I will give a couple of Samples for those who don't have the Data Book or other sources handy.

#10 AWG = .102 #12 = .081 #14 = .064 #16 = .051 Common House Wire Sizes.

Bare or Enameled (Solid) Copper Wire

#18 AWG = .040 Inches Dia. #20 = .032 # 22 = .025 # 24 = .020

26 = .016 # 28 = .013 #30 = .010 Inches Dia.

Now for some other tips on figuring out which is which when you have several unmarked coils in stock. Also handy if you have some unknown enameled wire recovered from old motors or Transformers. What you actually BUY WIRE? :^) Warning, some Transformer and/or motor wire is either odd wire sized or may have been imported and use a different Wire Gauge System. I think UK uses SWG for example.

In any case, some of these ideas are still useful. Also note that it often does not matter exactly what size wire is used when winding a coil. Only that you can fit the proper number of turns on the core with out overlapping.

Here are some standard Drill Sizes that match or come very close to the various wire sizes.

Wire Size/Decimal Inches/Drill Size

#10/.102/#38 #12/.081/#46 #14/.064/#52 #16/.051/#55 #18/.040/#60

#20/.032/#67 #22/.025/#72 #24/.020/#76 #26/.016/#78 #28/.013/#80

#30/.010/Needle in Haystack or get out the Auto Feeler Gauges for comparison.

Actually the Feeler Gauges can also help you check these if the Numbered Drills are not available.

You Can Make your own Wire Guage with a piece of Scrap Aluminum or even PCB and a set of numbered drills. Cheap Metal Stamps are also handy for marking it.

Lastly, I have found it quite helpful to Cut 2" strips of each size of wire and Tape or Glue them to a 3X5 Card and keep it handy on the workbench. I also happen to have some Magnetic Material that is used for Business Cards and Photos with adhesive on the back which converts your homebrew wire guage to a magnetic version which will stick to your toolbox or Memo Board.

I use a cheap Bulletin Board that has one half cork for thumb tacks and the other half for Dry Erase Markers. I add Four in wide strips of Sheet Metal from Heat Ducts to the Bulletin Board with Double Sided Carpet Tape or 3M Double Sided Foam Tape. This adds Magnetic Capability to my BB. I have magnetic tool holders and note holders on it as well.

If you are really in a pinch and don't have the measuring tools to do the job, Snip off about 2 or 3 inches of each size wire that you would like identified. Put them in an envelope along with a SASE for Return and I will measure and TAG them for you.

Hope this helps, Oh Yes!, There are NO DUMB QUESTIONS on this list.

Just things that some know, and some don't (YET:^^)

Sir George, The First :^^)

72 ES

QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net

QRP A.R.C.I. Net Manager and Board of Director Member.

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Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

Date: Sun, 21 Mar 1999 01:26:09 EST

From: RangerSF5@aol.com

To: qrp-l@lehigh.edu

Subject: [36152] Balloonists Made it

Message-ID: <d56d8de7.36f49101@aol.com>

Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hey Gang,
The two guy's in the Balloon are heading for a touch down in Egypt.
A real record breaker.
The craft itself tips the scales at just around 3 tons.
Prize?
A million bucks each.
Bob
WA2HOQrp <tm>

Date: Sat, 20 Mar 1999 22:54:12 -0800
From: Jim <w7ls@blarg.net>
To: qrp-l@lehigh.edu
Subject: [36153] WTB: SGC-2020
Message-ID: <36F49794.E3BBB63C@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Looking for a used SGC-2020. I understand that it has lots of problems on cw, so it'd be a ssb rig for me. Does anyone know if they ever fixed the cw problems or did they just bury them and rename it as a radiotelephone?

Please let me know what version, if there are versions, condx, and price. Tnx/73 de Jim, W7LS

Date: Sun, 21 Mar 1999 19:21:41 +0800
From: "Zhen Leao" <by2hit@qsl.net>
To: "QRP" <qrp-l@Lehigh.EDU>
Subject: [36154] Re:KnightSMiTe Schematic need
Message-ID: <017e01be738d\$66e020a0\$926afea9@lsc1>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Thanks to everyone responded my question!

Hope to see you all on air!

72,73

-Zhen Leao
BD4JI/BY2HIT
>From Harbin City China
<http://www.qsl.net/by2hit/>

Date: Sun, 21 Mar 1999 06:57:08 EST
From: Mercxx@aol.com
To: cw@qth.net
Cc: qrp-l@lehigh.edu
Subject: [36155] Australian keys and paddles
Message-ID: <cf6effdf.36f4de94@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi all,

Does anyone know a source for Australian keys and paddles? Thanks for the time and the bandwidth.

73s
Steve
N4TKP
FISTS 4922
QRP-L 1763
G-QRP 10248

Date: Sun, 21 Mar 1999 13:25:43 +0100
From: "Peter Zenker" <Peter_DL2FI@csi.com>
To: "'QRP-L via PoP3'" <qrp-l@lehigh.edu>
Subject: [36156] DL-QRP-PA english verbal description, how to built (LONG)
Message-ID: <002101be7396\$a5b8e880\$6a26e8c3@zenkerpn>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Those who are not interested, please excuse the bandwidth, but I got so much

requests
DL2FI

Friends, it is not so easy to describe without a drawing, but I will try to do.

```
-----  
I * Ground X2          *I   X6 Collector current  
I                      I  
I * Input hot X1       *I   X5 ground  
I                      I  
I                      I  
I                      *   I   X4 output hot  
I                      I  
I * R/S switch to Gnd *I   + 12 Volt to +14Volt  
-----
```

What does the german drawing mean:

UE means 50 Ohm Power input at point X1 / X2 where X2 is the ground point for the incoming coax cable and X1 is hot

X4/X5 is the PA 50 Ohm output where X5 is the ground point for the coax cable.

X6 is the point to measure the Collector current against a ground using a yAmmeter (if you want, not a must)

X7 is plus voltage entry (10Volt to 14 Volt)

X3 is the entry point for the send / receive switch (The abbreviation at the switch symbol E/S is the German equivalent for Receive/transmit where a ground forces the PA to send. Those of you who have not a plus to ground signal available but an opposite one will have to add a extra transistor switch. Don't connect the keying line behind switching transistor V2 ! this will cause several Problems (I did it in my QRP+ :-((

The several "M" markers you see in the schematics are all ground points (M=MASSE, the German word for ground.

The transistors:

All Transistors are mounted to the bottom side of the pcb.

If the transistors face you with their description side, bend the legs at the point where they become thinner UPWARDS in a right angle. Solder them to their holes that way, that they lay flat on the pcb.

The Transformers

Some of you will wonder about the extremely thin wire we use for the

transformers. You can be sure, it is absolutely ok up to much more than 10 Watts. If you calculate the resistance of the 2 or 4 windings you will see that is nearly zero. We have seen lots of PAs using thick wire, but we cannot see any need for it because it should be only a problem, if the wire has a significant resistance.

TR1

Start with the first two turns of the 4 turn side (Primary side)

REMARK Up through one hole and back through the other hole is a complete winding!!

If you finished the two turns of primary side, start with the secondary windings, but start from the exact opposite end. (If you started primary from the upper left hole, you have to start secondary from the upper right hole) After finishing the secondary, complete with the primary two turns left.

How to solder TR1:

hold the PCB that way, the thick 100yF condensor is at the down end, bottom labeled side to bottom.

Lay the transformer on the PCB the holes looking left to right.

solder the upper left wire to middle pin of the driver transistor (upper left one)

solder the lower left wire to the soldering point next right of the middle pin of that transistor

solder the upper right wire to the upper pin of the upper left transistor

solder the lower right wire to the upper pin of lower left transistor

TR2

This time we start with a part of the secondary. Starting at the upper left hole, sling 2 complete and 1 half turn through the holes. That means: left to right, back to the left is one turn. again left to right and back through the lower whole completes turn two. no to finish pull the wire left to right to the upper hole -- that makes the 2,5 turns complete. Bend the ends upwards for later use.

No do the first half of the primary, start at the left upper hole. left to right, back through the lower hole and again left to right and back. That completes the first two turns of the primary side.

No start at the right upper side. Right to left, back through the lower hole, again right to left through the upper hole and back.

Now you should have in the upper left and right side two wires each and in

the lower hole one left and one right. Take these two ends from the lower hole and twist them together or mark them with a color point.

To complete the transformer take the upper right end of the secondary winding (you remember, you bent it up earlier) and pull it through the lower hole right to left, that makes the third turn, left to right through the upper hole and back through the lower makes the 4th turn and again the same to make the fifth turn.

That's all, it is completed.

How to solder TR2:

Lay the transformer on the pcb that way, that the side with two wires only is looking upwards, the twisted or marked wires looking to the right side..

Solder the left wire to the lower pin of the upper right transistor.

Solder the two twisted or marked wires to the right side of C16 and C15 (that's the almost right line beginning at the choke in lower right corner up the right half of the pcb.

solder the primary wire from the lower left hole to the lowest pin of the lower right transistor

solder the secondary wire looking out of the left hole to the single solder point above the 3 chips in the lower right corner (that's the connection point for the inner coax output line as well)

connect the remaining wire from the right hole to the next available ground point (I did it to the right side of R16, that's the upper of the 3 chips in lower right corner.

Useage of insulators between transistors and wall or heat sink is strongly recommended for all 4 (I know, V6 is on ground, but the only tendency to oscillate we found when V6 was grounded to heat sink. In some cases without an insulator we found some oscillation at 150 MHz.

Make sure by using an Ohm Meter, that the insulation is ok before connecting power to the PA.

I hope this helps a little.

72 de Peter

Date: Sun, 21 Mar 1999 06:42:40 -0600

From: Chuck Carpenter <w5usj@unicomp.net>
To: radioham@erols.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [36157] Re: 6 Meters
Message-ID: <3.0.1.32.19990321064240.0069181c@mail.unicomp.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Steve and All,

As you know, 6 meters is a band where you can work the world with 5 watts and a dipole when conditions are right. Other times you can barely work 60 miles away with 100 watts and a 4 X 4 antenna array. I see from the VHF reflectors that some good DX is being worked with scatter, TE, F2 and some winter Es. It's not happening from my grid though so I'm waiting for the May to August season. Hope to complete WAS and VUCC with my QRP 6 meter rig and a 4 el beam up about 30 ft. (I started over fresh from my new QTH last year.) Hang in there too for the sunspot cycle to peak in the next few years. We should be able to get some good 6 meter DX during a couple of the peak years. Otherwise, HF is looking great 8^)...

72/73, Chuck, W5USJ, Point, TX EM22cv -- ARCI #5422 QRP-L #1306

Date: Sun, 21 Mar 1999 06:26:59 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Cc: "Saum, George" <gscomm@mho.net>
Subject: [36158] [ForSale-Swap] FS Ham Radio Mags (fwd)
Message-ID: <Pine.BSI.3.96.990321062520.23549A-100000@usr01.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

This is the deal of the decade. Please do not email me in response, but instead contact the seller. I spen over two years putting a set of Ham Radio together, and here's most of it in one lot.

```

      ,-----,
      /   What's all this   \
      / extinct stuff, anyhow? /
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```

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240


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Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

----- Forwarded message -----

Date: Sat, 20 Mar 1999 19:56:55 -0700
From: "Saum, George" <gscomm@mho.net>
To: ForSale-Swap@qth.net
Subject: [ForSale-Swap] FS Ham Radio Mags

For Sale:

Ham Radio Magazines -- Jan 1969 through June 1990 (Last).
Complete years except for Nov 1973 (I'm still looking)
Price \$200 plus shipping lower 48. Must sell all. Will not
split.

73, Bud, K0GS

To leave ForSale-Swap, send mailto:majordomo@qth.net
with the BODY of the message containing:

unsubscribe forsale-swap

Date: Sun, 21 Mar 1999 14:39:00 +0100
From: hw.merz@t-online.de (Hanns W. Merz)
To: qrp-1@lehigh.edu
Subject: [36159] Re: Sierra ...
Message-ID: <m100iRQ-00062EC@fwd00.btx.dtag.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8BIT

Content-Transfer-Encoding: 8BIT

Jerry,

Thank you for your kind words - I'm very pleased that you like the photos. I have ordered a K2 some weeks ago and expect delivery in abt 3 or 4 weeks. I'm very curious to get it!

72,
Hanns DK9NL

JERRY BROWN schrieb:

> Hans,
>
> Thanks so much for the photos of your rig...really a neat set-up.
>
> I've just finished building the K-2, have the Nor Cal 20 under
> construction, amd will do the Sierra and PA after that.
>
> You are a gentleman and a scholar.
>
> 72,
>
> Jerry N4EO
> Columbia, Tennessee
>

Date: Sun, 21 Mar 1999 09:13:18 -0500 (EST)
From: bkobie@webtv.net (patrick obrien)
To: qrp-l@lehigh.edu
Subject: [36160] trade
Message-ID: <26477-36F4FE7E-10@mailtod-142.iap.bryant.webtv.net>
Content-Disposition: Inline
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit
MIME-Version: 1.0 (WebTV)
Content-Transfer-Encoding: 7Bit

i have a norcal 40 qrp xvr excellent condx with the mod to increase pwr
to 3to 4 watts
and the mod switch to operate low portion or high portion of 40, wrks
excellent
trade for mfj qrp xcvr for 17, 40 mtrs

qsl k8len/pat

Date: Sun, 21 Mar 1999 09:57:11 EST
From: wb2vuo@juno.com
To: qrp-1@lehigh.edu
Subject: [36161] Off-Topic: HD troubles
Message-ID: <19990321.145423.5071.0.wb2vuo@juno.com>

NOT QRP! HIT <DELETE> NOW IF SO INCLINED!

I am sitting here with just my Juno account as the main computer is still down.

I bought a Samsung 3.2 GB HD, and when I try to install it, I get a virus warning from the Award BIOS. Anyone ever heard of a NIB HD coming with factory-installed viruses?

Also, I was given a Western Digital HD, and older EIDE drive, but without net access, I can't look it up (no doc on hand)

It's a WD93038-X, about 40 mb, I think

Could someone surf over to the Western Digital site and look this beast up for me. A direct reply to cut down on the B/W would be appreciated

It's kinda funny, but I didn't realize how much losing access to the "World-Wide-Wait" would bother me until I lost it. My wife sez that I lost it long ago, so that's been covered already...

72/73, Keith, WB2VUO, 100% QRP from the Depths of the Great Bergen Swamp. Trustee, B/BAMS club station and the NQ2RP/B 10 Mtr QRPp beacon
"My night light runs more power than my Rig!!!"

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 21 Mar 1999 08:13:30 -0700
From: Bruce Grubbs <bog@flagstaff.az.us>
To: qrp-1@LeHigh.edu
Cc: wshogin@primenet.com

Subject: [36162] QRPTTF border op W7TAO AZ/NV/UT
Message-ID: <3.0.5.32.19990321081330.00966bd0@mail.infomagic.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello gang,
Once again, K7ZEN and I will operate from the Arizona/Nevada/Utah corner for QRPTTF. This year we'll use our new club call, W7TAO (broken in at FYBO). Looks like we'll be running a Sierra at 2 watts, all bands. Unless by some miracle my K2 arrives in time to be assembled by April 24...

72,

Bruce, N7CEE
bog@flagstaff.az.us

Date: Sun, 21 Mar 1999 09:39:03 -0600
From: Michael Gusky <mgusky@bellsouth.net>
To: k5zty@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [36163] Re: How good is K2's QSK
Message-ID: <36F51297.3925541@bellsouth.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I am one of the hundred K2 field testers. I took me approximately 40 hours to build my K2 and I didn't have any major problems. The next production run of K2's will incorporate several changes that were suggested by the field testers. Perhaps what made this rig a pleasure to build was the private e-mail reflector available to the field testers and the great support from both N6KR and WA6HHQ. Both of these guys monitored the reflector and telephone to give us practically instant support when we had questions or problems. I don't know how the larger companies do it, but these guys took the time to field test their design and make necessary changes before they go to market. I think those of you that opt to purchase a K2 will be pleasantly surprised.

I have never personally met N6KR or WA6HHQ, but only talked with them on the phone. I have no financial interest in their company and I paid full price for my K2.

Mike Gusky

K5UX

k5zty@juno.com wrote:

>
> Doesn't this radio have any warts?? All I have heard is unabashed
> adoration for this radio when any question has been asked or any comment
> has been made about it. 100 beta radios out and ZERO problems?? It
> sounds too good to be true.
>
> Bill, K5ZTY
> Houston, TX
> k5zty@juno.com
>
> -----
> You don't need to buy Internet access to use free Internet e-mail.
> Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
> or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 21 Mar 1999 09:52:20 -0600
From: crc <crc@io.com>
To: QRPL <QRP-L@Lehigh.EDU>
Subject: [36164] hot band!
Message-ID: <36F515B4.1A544D83@io.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Last night coppied SP2PIK and JA6GC0 within 20 minutes of each other and both on 20 meters arround 12:30 local (CST) both sending CQ TEST and answering calls.I couldn't raise them with my 2 watts but more antenna , more antenna, more antenna.Then maybe.20 seems to be becoming a night time band all of a sudden.

Charlie WA5KRF Austin, Tejas

Date: Sun, 21 Mar 1999 10:52:55 -0500
From: Steve <smann@advi.net>
To: qrp-l@lehigh.edu
Subject: [36165] NC20 kit for sale or trade
Message-ID: <36F515D7.2F05@advi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

For sale or trade: NC20 kit, original packing, parts bags never opened.

I finally faced the fact that I just don't have time to work on it with all the other projects that I've go going.

Will consider cash offer or ham items for trade.

Email me direct.

Steve, N4EY
Toast, NC

Date: Sun, 21 Mar 1999 10:07:18 -0600
From: sda <sda@bellsouth.net>
To: qrp-1@Lehigh.EDU
Subject: [36166] NC20 problem (section 10 - AFA)
Message-ID: <199903211607.LAA01184@mail3.lig.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hey gang. Was hoping to be one of those who built the NC20 with no snags! But, at least I got as far as I did without problems. All tests have checked out up until this point. Ok, I am on Section 10 - AFA and carefully installed all parts and soldered.

Decided to do the permanent "manual AFA" route and soldered the LK2/LK4 with a piece of resistor lead. Went to do the check out, and the AFA could not announce at all, i.e. no tone. Removed power, went back and verified all part numbers/values, inspected solder joints, and took the following DC voltage measurements on U10:

Pin 1:	4.96V	(Manual says 4.9V)	
**Pin 2:	2.09V	(Manual says 2.35V)	
**Pin 3:	1.68V	(Manual says 2.8V)	
Pin 4:	0/4.96V	(Manual says 0/4.9V)	[AFA button works ok]
Pin 5:	.3V	(Manual says ~0.3V)	
Pin 6:	.3V	(Manual says ~0.3V)	
Pin 7:	2.47	(Manual says 2.5V)	

So, it looks like Pin 2 and Pin 3 are the only ones out of range.
So, I checked the traces near these pins on the bottom of the PCB
and reflowed the solder on the tiny X8, and just verified everything
was correct, and it was.

Any ideas here on what the deal might be?

Thanks,

Todd Atkins, K4MSW
Baton Rouge, Louisiana

<http://www.qsl.net/k4msw>

Date: Sun, 21 Mar 1999 08:19:59 -0800
From: Vic Rosenthal <rakefet@rakefet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [36167] Re: Old tube rig to qrp???
Message-ID: <36F51C2F.CC26F493@rakefet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Charles Kadesch wrote:

>
> My vintage QRP rig is a Meissner Signal Shifter EX (circa 1946). Band
> switched, 6V6 vfo to an 807 final runs 7 watts max (5 watts with ease).
> Darken the room and the green "magic eye" tuning and glowing tubes carry
> you back in time. No conversion or mods necessary- a vintage QRP rig. I
> pair it with a BC348 or HQ129X receiver. Total cost: less than \$100 for
> the pair at hamfests.

I have one too! Mine is a slightly older model, but very similar. I still need
to build the power supply for it, but otherwise it is (should be) all ready to
go. I have an NC101X to go with it. What does the eye tube indicate? I am
going to use it with a bug, of course. Someone told me they used to call them
'signal drifters'. We'll see.

73,
Vic, K2VC0
Fresno CA

Date: Sun, 21 Mar 1999 11:25:33 -0800
From: w4bws@juno.com
To: k5zty@juno.com
Cc: qrp-1@Lehigh.EDU
Subject: [36168] Re: Hints & Kinks - QRP-L [long]
Message-ID: <19990321.112649.-133659.0.w4bws@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Heisenberg and Goldberg were roomies at the Institute
Technicia de Transylvania where Heisenberg documented
Goldberg's experiments and had them edited by I.B. Murphy.
The works were published on April 1,00.

Don W4BWS

On Sat, 20 Mar 1999 22:01:39 -0600 k5zty@Juno.Com writes:

>
>Is this one of those April fool rules? We're talking about salvaging
>used wire here in the first place. If the enamel is still good what
>else could be wrong?
>Did Hiesenberg know Rube Goldberg?
>
>Bill, K5ZTY
>Houston,TX
>k5zty@juno.com
>
>

>-----
>You don't need to buy Internet access to use free Internet e-mail. Get
>completely free e-mail from Juno at <http://www.juno.com/getjuno.html>
>or call Juno at (800) 654-JUNO [654-5866]

Don Sanders W4BWS
694 E. Eau Gallie Blvd
Satellite Beach ,FL 32937
My favorite QRP rig glows in the dark

Date: Sun, 21 Mar 1999 11:04:28 -0500
From: Richard Sherman <srichard@aldus.northnet.org>
To: qrp-1@Lehigh.EDU
Subject: [36169] RS HTX-100 10m question
Message-ID: <3.0.1.32.19990321110428.007f7a30@aldus.northnet.org>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Hi all,

I picked up an HTX-100 at a swap meet yesterday and had a few questions about it if anyone is familiar with the rig. I have read the QST review of it and that made no mention of what I'm seeing. The "features" are: hearing both sidebands on CW; no CW offset (I have to run the RIT up about 700 or 800 Hz to make a contact). If anyone has any info on this rig, I'd appreciate hearing from you. Thanks in advance.
72 de Rick WZ2T Duane, NY Franklin County NNY

srichard@northnet.org

---If you're not part of the solution,
You're part of the precipitate.---
Steven Wright

Date: Sun, 21 Mar 1999 09:38:14 -0500
From: Joseph Trombino Jr <joebarb@wilmington.net>
To: QRP-L@LEHIGH.EDU
Subject: [36170] NC20 manual errata
Message-ID: <3.0.1.32.19990321093814.0069c29c@wilmington.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello fellow QRP'ers: Just got back from 4 months overseas and tried to track the NC20 construction progress at it went along via the DIGEST mode. I am just starting to build my kit and recall one of the digests pointed out some errata in the manual, specifically a reminder for PG9 to install two resistors, one was R100 and I missed the other resistor number.

Can anyone help me out with the other resistor number?? Also, wonder if additional errata, mods, and/or hints and kinks in the construction of the NC20 reside in one place in downloadable form. Anyone out there have a collection that would be easily emailed to me??

Many thanks for any assistance rendered. Looking forward to meeting old friends at Atlanticon next week.

Joe W2KJ

Date: Sun, 21 Mar 1999 10:52:33 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: Low Power Group <qrp-l@LeHigh.EDU>
Subject: [36171] NU6SN

Message-ID: <Pine.LNX.3.95.990321104935.18608C-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I've had an e-mail I sent to Richard Fisher, NU6SN, returned as "address unknown"....does Richard have a new address?....the address I used was from the QRP Quarterly, Oct.1998 - nu6sn@aol.com

...72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - Regina, Saskatchewan. Canada
"QRP! How sweet it is!"

Date: Sun, 21 Mar 1999 11:30:15 -0800
From: Charles Kadesch <chas@digizen.net>
To: rakefet@rakefet.com
Cc: qrp-l@lehigh.edu
Subject: [36172] Re: Old tube rig to qrp???
Message-ID: <36F548C7.5B0A@digizen.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Vic Rosenthal wrote:

> I have one too! Mine is a slightly older model, but very similar. I still need
> to build the power supply for it, but otherwise it is (should be) all ready to
> go. I have an NC101X to go with it. What does the eye tube indicate? I am
> going to use it with a bug, of course. Someone told me they used to call them
> 'signal drifters'. We'll see.

Vic: The tuning eye indicator indicates grid current on the 807 and gives a visual check on keying and oscillator operation (The eye almost closes when the osc is operating normally). I let the rig warm up for 10 minutes before I start sending and the stability is OK. Part of the charm I think- life was more relaxed in those days. The NC101X will make a nice combo. I have one of those here that I hope to bring on-line someday. James Millen was a mechanical engineer at National before he started his own company and the amazing sliding tray of coils for bandswitching in the NC101X is a tribute to his work. Good luck with your vintage QRP station.

-72 de Chas W3KC-

Date: Sun, 21 Mar 1999 17:16:44 -0800
From: dave.g0dja@psilink.co.uk (Dave Ackrill)
To: qrp-l@lehigh.edu
Subject: [36173] Re: CW Sending
Message-ID: <E100lod-0004J3-00@relay1.mail.uk.psi.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I usually prefer a set of paddles, and the K1EL keyer. But I sometimes use a straight key.

Why do I use one at any particular time? Many reasons, but on a Straight Key Evening the decision is made for me. HI.

I've never used a Bug Key though.

de Dave (G0DJA)

>I would be interested to know how many people use a straight key, or a
>bug, or a paddle and keyer with their QRP CW rigs. Also, why do yo use
>that type of key instead of one of the others.

Date: Sun, 21 Mar 1999 10:16:11 -0700
From: "David Ek" <ekdave@earthlink.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [36174] NC20 panel art available
Message-ID: <004901be73be\$855e8fe0\$14ab85ce@davidek>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

I received several inquiries regarding the panel art for my NC20 which I posted about recently. So, I exported the art to a number of different formats and put them all in a zip file on my web site. You can see the art and get a copy for yourself by going to

<http://home.earthlink.net/~ekdave>

and following the NC20 Panel Art link on that page. Feel free to customize to your heart's content--you'll at least have the layout for the holes done

already. I'm not sure how well this'll work in GIF and BMP format--they're included but you may have to scale them so that they print at the proper size.

If you don't have the computer or printer to do this for yourself, I'd be happy to print you a copy and send it to you. Send me an SASE and I'll print you a copy. I'll even customize it with your call sign (like I did with mine) if you'd like. A buck to cover the cost of the glossy photo paper would be appreciated (the stuff is kinda expensive).

72 de Dave AB0GO
Colorado Springs

Date: Sun, 21 Mar 1999 10:43:46 -0700
From: Gary L Surrency <gsurrency@juno.com>
To: qrp-1@lehigh.edu
Subject: [36175] Clegg 99'er anyone? QRP on 6m
Message-ID: <19990321.104347.-99025.1.gsurrency@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

When I was a kid, I was in the local RACES network and we were furnished by the county civil defense coordinator Clegg 99'ers on 6m for the emergency service net. We met once a week to keep the gear operational, and for fun too.

Anyway, I worked all over this hemisphere on 6m with that little rig using either a 5 element yagi at 50 feet or a J-pole vertical. A lot of fun for a new Novice op! :-)

If I remember correctly, that little radio was a tube xcvr for AM only and had an output of 5-7 watts.

Does anyone have one of these for sale, or do you remember them?

72,

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com/getjuno.html>

or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 21 Mar 1999 12:44:09 EST
From: K2UD@aol.com
To: qrp-l@lehigh.edu
Subject: [36176] Re: Hints & Kinks - QRP-L [long]
Message-ID: <5f273972.36f52fe9@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

There may not be many of us who own micrometers, but I'll bet there are more of us who may have a set of calipers (to measure cartridge cases, and OAL for re-loading purposes). That's what I use to determine size of unknow wire I pull out of TVs and such.

There is also the "eyeball" method, using a length of known gauge wire. Works most of the time!

72 all

Howard Kraus, K2UD

Date: Sun, 21 Mar 1999 12:49:05 EST
From: K2UD@aol.com
To: qrp-l@lehigh.edu
Subject: [36177] Re: 6 Meters
Message-ID: <d56f6916.36f53111@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Was looking at an ICOM 3W rig at a hamfest. It was a portable with a built-in whip, and low batteries.

It was the June VHF QSO party weekend.

Cndx were fantastic for the 15 minutes I was looking at the rig.

Pulled the antenna out, low batteries and all.

Worked the midwest from the east, 20 over on SSB!

Sold!

That band changes!

72

Howard Kraus, K2UD

Date: Sun, 21 Mar 1999 13:19:38 -0500 (EST)
From: James Skalski <jskalski@localnet.com>
To: K2UD@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [36178] Re: 6 Meters
Message-ID:
<Pine.LNX.4.04.9903211319020.2762-1000000@valhalla.valhalla.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Maybe you worked someone 2 rows over at the hamfest :-))

73,

Jim n2go

Date: Sun, 21 Mar 1999 12:23:32 -0600
From: "George T. Baker" <w5yr@swbell.net>
To: rakefet@rakefet.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [36179] Re: Old tube rig to qrp???
Message-ID: <36F53924.35029ADC@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I used to run the same Signal Shifter barefoot on 11 meters (yes, ELEVEN meters) using an outboard narrow-band FM adapter for phone operation. Worked like a hose even with such low power for those times (1947). Receiver was an HRO-5TA1 and the antenna was a four-element wide-spaced Yagi by Bill Hoisington, W2BAV.

For CW, I seem to recall that the keying system was rather primitive and the result was substantial click and chirp, but maybe that was just my unit.

I think that the eye tube was a tuning indicator used to tune the 807 final, but I am not completely sure about that.

Another point was the reliability of the turret arrangement for changing bands. Had to clean the contacts very frequently as they tended to lightly corrode and become intermittent. But it was REAL bandswitching!

72/73, George

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE #522 ARS 10-X 33.2 N 96.6 W EM13RE

Date: Sun, 21 Mar 1999 11:38:57 +0000
From: Bob Hightower <ki7mn@extremezone.com>
To: qrp-l@lehigh.edu
Subject: [36180] Email for Wayne/Eric at Elecraft
Message-ID: <199903211835.LAA29720@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Anyone have an email address for either Wayne or Eric at Elecraft? I tried sending mail from their web page, but no reply, so I assume it didn't get through.

72,73

Bob Hightower KI7MN Chandler, AZ DM43BI

<http://www.extremezone.com/~ki7mn>

Date: Sun, 21 Mar 1999 13:01:16 -0600
From: "Tom Whiteside" <n5tw@igg-tx.net>
To: <QRP-L@lehigh.EDU>
Subject: [36181] Low Power experiment
Message-ID: <000b01be73cd\$337750e0\$eb21f0cd@g517v>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I've been intrigued with the discussions on WAS with minimum power but had not tried anything below 900mW... (One of the things I look forward to with the K2 is being able to dink around with the power from the front panel....) Any way, conditions on 10M were really great on Sunday - had just done a QSO with a fellow with an in-apartment dipole with a 589 report on my 2 watts and got a 539 from a CA station with my beam pointed to the NE. He had a 5 element monobander at 75 feet or so and I was using a stacked beam arrangement with a Hygain TH7DXS at 115 feet and a Hygain TH3S at 65 feet - we were so loud, I asked him if he wanted to try a reduced power experiment...

In my excitement, I forgot to convert pk-pk voltage to rms for the calculation or would not have had the nerve to try so low... I set the power to what was 5v pk to pk which works out to around 60mW and he gave me a 539. We kept chatting at this level so I knew he was not missing anything... Reduced it to 0.5v pk-pk which is about 0.6mW and he was still copying and answering my questions but said I was right at his noise floor... He could not copy me on the top beam or the bottom beam at that level but could hear me on the stack - interesting because he was louder here on the bottom antenna... I run LMR600 low loss coax -its about a 250 foot run with the distance to the tower and the phasing gadget, etc so only lose about a dB getting to the beams... I'm wondering if this is too good to be true!!!! Since he could only hear me on the stack, it lends credence to test being real and not leakage from the predriver stage... He also could not hear me with the drive cranked to nil which makes that seem legit. The test setup was a Sierra with the top off (more leakage) and a Tek x10 scope probe hung off the power output connecter and reducing power with the drive pot... Am I missing anything here or did I really work Georgetown, TX to Semi, CA on 0.625mW? Pinch me and tell me if I'm awake! (BTW, the power for the Sierra on 10M max is around 2.2W which matches what me measured at a friends place roughly - I think my scope is reasonably calibrated...) The time for the QSO at lowest power was around 17:05-17:10 UTC Sunday and we virtually lost the band at 17:14 - could barely hear him at 100W... Maybe NA5N has a comment on the bands at that time??? Forgive me if this is routine for you milliwatters - i was just getting used to being able to work the world on 2W - hi

Tom Whiteside
N5TW Georgetown, TX

Date: Sun, 21 Mar 1999 14:01:13 -0500
From: S LYON <sslyon@worldnet.att.net>
To: qrp chat <qrp-l@Lehigh.EDU>
Subject: [36182] KITES/40m J-Pole: T0000 much wind!!!

Message-ID: <36F541F9.D6EEB3D5@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Well, I sure found out how much wind the 9' kite will take.... -A LOT!!
This turned out to be a major wrestling match which was absolutely
draining as i was trying to do this alone. NOT A GOOD IDEA. Wind gusts
hit WAY better than 25mph and the kite lasted almost long enuff to get
the 100' 40m J-pole up... but not quite. The line was really stressing
(225lb) when the kite blew up with a *!BANG!* So, I'll wait 'til this
storm front blows thru before trying again -I'm gonna have a beer and
take a nap.

72
-s-
--

'Seab' Lyon - AA1MY
Beacon NY USA FN-31
QRP-L 574 ARCI 9253

Date: Sun, 21 Mar 1999 14:10:47 -0500
From: "Ken & Linda Burrough" <ne0c@1st.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [36183] Re: CW Sending
Message-ID: <002501be73ce\$8a6b5620\$2d07f0d1@ne0c.1st.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Hi all

I will have to duck for cover after this but it is the way I send my CW. =
For the last 15 years I have use a Keyboard. For me it is the best why =
to send. Just remember I still have to receive the OLD FASHIONED =
WAY---BY EAR.

Ken/ne0c
USAF Retired
Flushing, Ohio
ne0c@1st.net

Date: Sun, 21 Mar 1999 10:10:23 -0900
From: Jim Larsen AL7FS <al7fs@pobox.alaska.net>
To: "qrp-1@lehigh.edu" <qrp-1@lehigh.edu>
Subject: [36184] By golly, I will make time!
Message-ID: <36F5441F.8C8DAA1A@pobox.alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I am really short of QSOs this past month so today I make time to get on the air. Wish me luck that the bands are cooperating. I hope to get on sometime between 2000Z and 2200Z depending on chores, etc.

--
73, Jim, AL7FS
<http://www.qsl.net/al7fs/>

Date: Sun, 21 Mar 1999 13:23:56 -0600
From: "J. W. (Dub) Thornton" <dub@oklahoma.net>
To: qrp-1@lehigh.edu
Subject: [36185] Re: CW Sending
Message-ID: <199903211924.0AA39542@nss4.cc.Lehigh.EDU>
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

>>I would be interested to know how many people use a straight key, or a
>>bug, or a paddle and keyer with their QRP CW rigs.=A0=A0 Also, why do yo=
use
>>that type of key instead of one of the others.
>=20

I use a paddle and Super CMOS II keyer for about 75% of my CW'in. I will use a handkey ONLY if forced to. Main reason is that I am simply not proficient with one. I love a bug, and will readily hop on it for short time periods. =
I
also
use a keyboard, primarily for speeds faster than I can run a paddle, but=

also
just for the pure pleasure of using it. I have a homebrew keyboard, & a
heathkit
UltraPro, but my keyboard of choice is this PC I am using to type this msg,
with
a very simple homebrew keying interface that does transmit only. I find
the PC
has the advantage over dedicated keyboards, of showing what I type on the=20
monitor, & allows corrections to typing errors before they are sent out.=20
(Provided
one is fast enuff on the keyboard to do so). =20

I have all keying devices paralleled, thus can key any rig with any keying
device
at the flip of a rotary switch. "72"

-

J. W. (Dub) Thornton) WA5YFY
Minco, OK.

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Get your FREE Internet Access and Email at
<http://www.netzero.net/download.html>

Date: Sun, 21 Mar 1999 20:51:47 +0100
From: "Peter Zenker" <Peter_DL2FI@csi.com>
To: <rob3ert@vegas.infi.net>
Cc: "'QRP-L via PoP3'" <qrp-l@lehigh.edu>
Subject: [36186] AW: DL-QRP-PA english verbal description, how to built (LONG)
Message-ID: <002a01be73d5\$2e505f00\$6a26e8c3@zenkerpn>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

Bob,
I think you did not see the description how to build the PA into the SIERRA
Yes it uses the output filters
See the description below
Peter

Ok, I got so many requests, so I think its ok to post it to the list. For
other txvrs it should be easy to modify this information.

The PA has a 50 Ohm input, that makes it easy to build it into a Sierra.

1. Remove PA Transistor Q7
2. Remove Diode D7 (That is the Zener Diode used to protect the PA transistor against high voltage, it is no longer needed because the PA is self protected.
3. According to newer versions of the SIERRA manual, R15 should be 49 Ohm - make sure it is.
4. Remove L10 (That is the choke to bring Vcc to the old PA transistor)
5. drill a hole just above the BNC connector into the backplane. This is for the power regulator pot. Diameter of the hole as big as you need it to mount a pot. ATTENTION the high above the BNC connector depends on the diameter of the pot. Mount a 1k lin Pot into the hole.
6. Hold the PA momentarily at the backplane abt 1cm below the upper end and abt 1cm right of the pot. Mark the 4 holes you need through the holes of the 4 transistors to the backplane.
7. drill the 4 mounting holes for the PA.
8. Mount the PA using insulators for the transistors and for the screws as well (the standard mounting form for this transistor case if it has to be insulated.) Make absolutely sure that the transistors are isolated from the backplane because they are hot. If you have a short here, R5 at the PA will burn immediately. (had this failure by myselfe twice ;-)
9. Cut 2 short lengths of RG174 or similar 50 Ohm coax. One must be long enough for a connection of the former D7 place to the upper right corner of the PA, the other from R15 location to the input leg of the pot. Deinsulate both ends of the coax for abt 1cm
10. solder the shorter piece of coax one end across R15. Inner conductor to the side of the resistor which looks to the plug in connector, shield to the backplane side. Solder the other coax with the inner conductor to the input side of the pot and the shield to the most upper corner of the PA (ground point). Solder a piece of wire between the wiper of the pot and the PA input point.
11. Solder one end of the other coax to the Pads of former D7. Inner conductor to left side, shield to the right side. Solder the other end of the coax to the output pins of the PA.
12. solder an insulated wire between the E/S point (German for Receive/Transmit) at the lowest left corner of the PA to the point at the Sierra board labeled "K" (right back corner near to the key in port)
13. solder an insulated wire between Vcc (lower right corner of PA) to the right side of D6

Thats all. No further alignment needed. The PA uses the standard Low Pass configuration. Until now no problems with the Voltage ratings of the C in the LPF are known although some of us used the PA at 7 to 8 Watt level up to 30 MHz. Use the Pot to regulate the power. Those who would like to control the PA current may install an milliammeter between point X6 and ground. (X6 is the almost upper Pin in the right upper corner)

Have fun

72 de Peter
DL-QRP-AG

-----Urspr ngliche Nachricht-----

Von: rob3ert@vegas.infi.net [mailto:rob3ert@vegas.infi.net]

Gesendet am: Sonntag, 21. M rz 1999 16:57

An: Peter_DL2FI@csi.com

Betreff: Re: DL-QRP-PA english verbal description, how to built (LONG)

Peter,

Thank you for the English translation!!

However, something is not clear to me,----does the output of the PA go through the EXISTING (Sierra) output filter to the antenna?

Thanks es 72/73

Bob Parks
K6AEC (Las Vegas, NV)

Date: Sun, 21 Mar 1999 20:54:44 +0100
From: "Peter Zenker" <Peter_DL2FI@csi.com>
To: <tuday@webtv.net>, "'QRP-L via PoP3'" <qrp-l@lehigh.edu>
Subject: [36187] How to place the transistors at the DL-QRP-PA
Message-ID: <002b01be73d5\$33075760\$6a26e8c3@zenkerpn>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

If the pcb is before you, 100 uF lower side:

upper left: 2SC1971
upper right 2SC1971
lower left:BD202
lower right: 2SC1971

-----Urspr ngliche Nachricht-----

Von: tuesday@webtv.net [mailto:tuesday@webtv.net]

Gesendet am: Sonntag, 21. M rz 1999 18:17

An: Peter_DL2FI@csi.com

Betreff: Re: DL-QRP-PA english verbal description, how to built (LONG)

peter
looking at the manual and pc
board how do tell which transistor
goes where?

Date: Sun, 21 Mar 1999 12:15:19 +800

From: "George P. O'Connell" <gpocon@wa.freei.net>

To: qrp-1@Lehigh.Edu

Subject: [36188] 10:1 Probe for R/S 22-306 frequency counter

Message-ID: <36f55357.2dfd.0@wa.freei.net>

Tnx to all who responded to my question. Wealth of info on this reflector.
Never a day goes by that I don't learn something new and interesting from reading
the list. For the time being I will use the coaxial with the .01 cap on the
inner conductor. Also checked Mueller Electric's Web site and found local
distributor
for the Mueller probe 0900003.

Agn Many txs and best of 72

George/N7EQH

Date: Sun, 21 Mar 1999 12:39:31 -0800

From: "Alan Kaul W6RCL" <alan.kaul@worldnet.att.net>

To: <srichard@aldus.northnet.org>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [36189] Re: RS HTX-100 10m question

Message-ID: <19990321203949.KHRP15434@oemcomputer>

MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Duane....

I bought the HTX-100 when they were on sale originally about 8-10 years ago (near the peak of the previous sunspot cycle). Its biggest weakness is on CW, where the filter passband is about 2.5-2.8kHz wide (filter is designed for SSB). On CW you've diagnosed the tuning weakness accurately -- you need to offset receiver tuning using the RIT control so you don;t fall out of the other station's passband. I investigated the possibility of a switchable xtal filter for CW and it seemed to have a high degree of difficulty, so I abandoned that idea and continue to use therig as is. In 1991, during a week long trip to Hawaii, I was able to work 35 countries CW and 30 countries SSB using a dipole antenna hung between trees about 10-feet off the ground. Best DX was South Africa from KH6. G1 and best 72/73 de alan

Alan Kaul, W6RCL, LaCanada-Flintridge, CA
<http://home.att.net/~alan.kaul/qrp.html>
alan.kaul@worldnet.att.net
w6rcl@amsat.org

Date: Sun, 21 Mar 1999 20:46:39 +0000
From: peter barville <peter@barville.demon.co.uk>
To: QRP-L@lehigh.edu
Subject: [36190] Source for MC1490?
Message-ID: <2p4\$GIAVqV92Ewdb@barville.demon.co.uk>
MIME-Version: 1.0

I wonder if anybody can tell me where I can obtain an MC1490 chip? Thank you for your help ..

--

For up to date information on QRP Dx operations, and QRP contests:
<http://www.barville.demon.co.uk/qrpinfo.htm>

72, peter g3xjs Please remove "nosspam" when replying.
ie "peter@barville.demon.co.uk"

Date: Sun, 21 Mar 1999 14:56:27 -0600 (CST)
From: ac5ez@webtv.net (Larry B)
To: qrp-l@Lehigh.EDU
Subject: [36191] Not qrp/ loan /borrow / buy
Message-ID: <12435-36F55CFB-478@mailtod-112.iap.bryant.webtv.net>
Content-Disposition: Inline
Content-Type: Text/Plain; Charset=US-ASCII
Content-Transfer-Encoding: 7Bit

MIME-Version: 1.0 (WebTV)
Content-Transfer-Encoding: 7Bit

Looking for a current codeless tech manuel (or what ever you call that thing) for a 13 year old girl who wants to get her codeless tech license this summer. Her 15 yr old sister (kc5vjc) plans to tutor her.
K1z

Date: Sun, 21 Mar 1999 16:04:29 EST
From: DLShips@aol.com
To: qrp-1@lehigh.edu, klqrp@waterw.com
Cc: DLShips@aol.com, aa4xx@amsat.org, designserv@ipass.net, dhlauten@juno.com
Subject: [36192] Core Banks Island and the Carolina Boys at play
Message-ID: <7a93d465.36f55edd@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Guys,

The Carolina folks are at it again... Yup, beacons and all.. Please join the fun.. Look for WQ4RP/QRP from the Outer Banks of NC on Core Banks Island (NA67).

Stations will be operating, starting Thursday evening and continuing through Sunday morning. Most of our activitiy will be concentrated within 5 KHz of the standard QRP calling frequencies. Kites and beacons will be in the air and on the air throughout the event.

Some of the fellows will arrive on the island Thursday, March 25 to set up big antennas in hopes of making QRPP contact with two German groups on Friday and Saturday night. SMiTeS have been converted to operate on frequencies below their standard frequency of 3686.4 KHz. It's hoped that SMiTe to SMiTe contact between the US and DL can be accomplished. Yahooooo Yippieeee !

OK, Here's the beacon schedule: (not nearly as extensive as last year)

Kite Beacon:

March 26, 1999 - Frequency = 21063Khz Time = 19:00Z to 22:00Z
March 27, 1999 - Frequency = 28685Khz Time = 15:00Z to 19:00Z
March 27, 1999 - Frequency = 21063Khz Time = 20:00Z to 22:30Z
March 28, 1999 - Frequency = 28685Khz Time = 14:00Z to 16:00Z

160 Meter Beacon:

March 27, 1999 - Frequency = 1820Khz Time = 00:00Z to 01:00Z

March 27, 1999 - Frequency = 1820Khz Time = 05:00Z to 13:00Z

March 28, 1999 - Frequency = 1820Khz Time = 00:00Z to 01:00Z

March 28, 1999 - Frequency = 1820Khz Time = 05:00Z to 13:00Z

We hate to miss Atlanticon 99 but this island expedition has been in the planning for a long time. We hope to hear from some of you guys at Atlanticon. It's just a hop, skip and a jump up the coast.. We're especially hopeful our QRPp beacons are heard a long way from the island...:^)

We'll all be looking for you ! 72 & 73 de Don, W3RDF/qrp

Date: Sun, 21 Mar 1999 13:10:01 +800
From: "George P. O'Connell" <gpocon@wa.freei.net>
To: qrp-1@Lehigh.Edu
Subject: [36193] Mueller Electric Co URL
Message-ID: <36f56029.11dfa.0@wa.freei.net>

Hi Bob and all on list. URL for Mueller electric Company is:

<http://www.muellerelectric.com/>

They will list all their products and then you can select a distributor in your area.

72

George/N7EQH

FISTS, GQRP, ARCI, ARRL

Date: Sun, 21 Mar 1999 13:29:23 -0800
From: "John Moriarity" <k6qq@hdo.net>
To: <rakefet@rakefet.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [36194] Re: Old tube rig to qrp???
Message-ID: <003c01be73e1\$f98177c0\$e7424cd1@k6qq>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Vic Rosenthal <rakefet@rakefet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Sunday, March 21, 1999 12:16 PM
Subject: Re: Old tube rig to qrp???

>Charles Kadesch wrote:

>>

>> My vintage QRP rig is a Meissner Signal Shifter EX (circa 1946).

Vic, K2VCO wrote:

>I have one too! ...Someone told me they used to call them
>'signal drifters'. We'll see.
>

Actually, we called them "Miserable Signal Drifters" ;-)

Mine drifted quite a bit for the first hour or two, but then became stable. Nice piece of gear. Used it to drive a single 814 at 150W, and received on an HR0-5. Them were the days (mid 1950's)!

72,

John, K6QQ
Alturas, CA

Date: Sun, 21 Mar 1999 21:22:05 -0000
From: "Mel Evans" <MelGM6JAG@bccscotland.freemove.co.uk>
To: "QRP List" <qrp-l@lehigh.edu>
Subject: [36195] April Magazine articles - -
Message-ID: <000001be73e3\$24832ee0\$eb21883e@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi guys,

Two of the best ever done here in the uk was on a VERY serious daily TV programme called "To-night" which usually covered fairly serious political items, documentary type fillers, conservation stuff and the like.

The first one was a report on the failed spaghetti harvest in Italy. This showed film of dying spaghetti trees draped in withered dried up spaghetti, and outlined the Italian Government's plans to combat the world-wide shortage of spaghetti that was sure to occur as a result.

Next day, all major supermarkets reported increased sales of spaghetti! You've guessed it, people stocking up because of the "shortage".

The other was a "bouncing" golf ball. The story was that the ball had a radio-controlled link (there's the link to the qrp list!) and if you lost it in the rough, long grass or wherever, you pressed the remote button and the ball bounced up and down on the spot so you could find it!

Yes, people did try to buy the thing!

Regards

Mel

GM6JAG, Edinburgh, Scotland UK

Home of the last HW9

British Caravanners Club Scotland Website up-dating daily

<http://www.bccscotland.freemove.co.uk>

Over 20 local pages, and linked to over 4500 pages worldwide

Date: Sun, 21 Mar 1999 16:49:06 EST

From: N10DL@aol.com

To: qrp-1@lehigh.edu

Subject: [36196] Need QSL info for DX contact

Message-ID: <ecc7a469.36f56952@aol.com>

Mime-Version: 1.0

Content-type: text/plain; charset=US-ASCII

Content-transfer-encoding: 7bit

Content-Transfer-Encoding: 7bit

Made a QSO yesterday with Peter,EA6BB/qrp and I was also qrp. This will be the longest distance I have done QRP. I have not been able to locate any QSL

information for this call. Does anyone have any information on him?

Thank you in advance.

Aron Brown

Bedford, NH

N10DL

QRP-L #1326

FISTS#4110

Date: Sun, 21 Mar 1999 15:16:27 -0700

From: Bradford D Bilbrey <bigdawg74@juno.com>

To: qrp-l@Lehigh.EDU

Subject: [36197] What Key do you use

Message-ID: <19990321.151628.3574.0.bigdawg74@juno.com>

>>I would be interested to know how many people use a straight key, or a
>>bug, or a paddle and keyer with their QRP CW rigs. Also, why do yo
use

>>that type of key instead of one of the others.

I use a old homebrew cmos keyer made out of a bunch of cmos IC's, for
paddles I use on old spring loaded two position toggle switch. I use
this because the cmos keyer cost \$2.00 at a ham swap meet and I found the
toggle switch at an electronics etc junk store for \$.25 it's not that
easy to use but my CW speed ain't so good either. I was thinkin of sewing
a pair of mercury switches in the fingers of a glove, so all I had to do
was tap my fingers.

OK OK I'll stop thinkin

72's

KE7MU

"If it ain't broke, fix it till it is"

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or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 21 Mar 1999 14:18:41 -0800

From: Jim Lowman <jmLowman@ix.netcom.com>

To: ratray@gpfn.sk.ca, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [36198] Re: NU6SN

Message-ID: <4.1.19990321141350.009563d0@popd.netcruiser>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 10:52 AM 3/21/99 -0600, Bruce Rattray wrote:

>I've had an e-mail I sent to Richard Fisher, NU6SN, returned as "address
>unknown"....does Richard have a new address?....the address I used was
>from the QRP Quarterly, Oct.1998 - nu6sn@aol.com

Hi, Bruce. Richard is a regular QRP columnist in Worldradio Magazine.
Looking at the April, 1999 issue, richard lists his callsign as KI6SN, and
his e-mail address as: KI6SN@aol.com

I met Richard in September of 1997, when our Council was sponsoring the
1997 ARRL Southwestern Division Convention in Riverside, which is
Richard's home. At that time, he was NU6SN. For some reason, it appears
that he has reclaimed his former callsign.

Richard...anyone?

72 de Jim - AD6CW

Date: Sun, 21 Mar 1999 22:45:22 -0000
From: "Ted Williams" <tedw@btinternet.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [36199] CW question
Message-ID: <001e01be73ec\$97fd7980\$7ce0abc3@btinternet>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Further to the code information by Mike,NA1XX, I too have a listing of the
original American Morse code, and I'm sure Morse was aware of the frequency
of usage of letters (in English, anyway, it will be different for other
languages).

I gather this starts E,T,A,O,N,R,I,S,C,H.....all of which are
short in the old code, with E & T certainly the shortest.

Moreover, I understand that morse laughter was
dit dit dit dit dit space dit =ho
which is more realistic than hi.

I suppose the dit space dit was sent roughly as a musical triplet, which

argues a much better rhythmic sense than cw ops today ;-))

One extra.....ampersand, &, was dit space dit dit dit which would
be read today as 'es'
Sound familiar?

72, Ted G0ULL

Date: Sun, 21 Mar 1999 15:06:50 -0800 (PST)
From: Duane Alles <w9zm@yahoo.com>
To: srichard@aldus.northnet.org, Low Power Amateur Radio Discussion <qrp-
l@Lehigh.EDU>
Subject: [36200] Re: RS HTX-100 10m question
Message-ID: <19990321230650.7322.rocketmail@send501.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hi Richard,

I've used the htx-100 a lot on cw and have not had that problem. I've
had many cw and SSB contacts and didn't have to touch the rit.

72/73,
Duane

--- Richard Sherman <srichard@aldus.northnet.org> wrote:

> Hi all,
> I picked up an HTX-100 at a swap meet yesterday and
> had a few questions
> about it if anyone is familiar with the rig. I have
> read the QST review of
> it and that made no mention of what I'm seeing. The
> "features" are: hearing
> both sidebands on CW; no CW offset (I have to run the
> RIT up about 700 or
> 800 Hz to make a contact). If anyone has any info on
> this rig, I'd
> appreciate hearing from you. Thanks in advance.
> 72 de Rick WZ2T Duane, NY Franklin County NNY
>
> srichard@northnet.org
> ---If you're not part of the solution,
> You're part of the precipitate.---
> Steven Wright
>

>

Do You Yahoo!?

Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Sun, 21 Mar 1999 15:48:20 -0700
From: jaywa5whn@juno.com
To: qrp-l@lehigh.edu
Subject: [36201] Vintage Spy QRP radios/MRCG meeting
Message-ID: <19990321.161356.-991723.1.jaywa5whn@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Military Radio Collectors Group 1999 Meeting {From "Electric Radio", page
13, March 1999 issue}
on April 30 & May 1, 1999 in San Luis Obispo, California.

Contact via email Don Jeffrey, boallan@aol.com or Ed Zeranski,
ezeran@cris.com for more information about this event.

72...Jay, WA5WHN DM65qd Albuquerque, NM USA

"When someone asks you, "A penny for your thoughts", and you put your two
cents in, what happens to the other penny?"

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or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 21 Mar 1999 18:19:28 -0500
From: "Steve Blatman" <steve@inkspot.net>
To: qrp-1@Lehigh.EDU
Subject: [36202] a little off topic--vcr front ends?
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

I've been lurking here for a while, and have a non-ham electronics problem. If there's a better place to post this, please give a pointer.

Our old vcr had a better rf front end than our tv, so we always tuned through the vcr. We replaced it when I could no longer get replacement belts & idler wheels, and the heads simultaneously gave up the ghost. We've tried a couple of new vcrs, and their front ends stink, since they assume a cable connection (and we, for a number of reasons, prefer to use antennae). Do any of you know of a vcr with a decent tuner in it, or a decent off-board tuner that can be hooked up as an accessory? It's a pain in the lower back to have to swap cables around when we want to switch from
antenna -> vcr -> tv to antenna -> tv.

TIA for whatever,

73 de N1HDP

Steve Blatman (steve@inkspot.net)
Ink Spot Printing & Copy Center, Inc.
14 Church Road, Frazer, PA 19355 USA
Tel: (610) 647-0776
Fax: (610) 647-4560

Date: Sun, 21 Mar 1999 18:27:41 -0500
From: "Steve Blatman" <steve@inkspot.net>

To: qrp-1@Lehigh.EDU
Subject: [36203] manual and advice for Tektronix 465M
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

I picked up a 465M scope at a hamfest a few years ago, and, while it worked at the time, it now wants some individual attention. (Seems most of my gear is in that stat too much of the time...) When I turn it on, the "trigger ready" light flashes on, and then dims. The display remains blank. When I turn it off, the "trigger ready" light again flashes, and a bright spot flashes on the display. I haven't got a manual, and I haven't yet attempted surgery on the patient. I'm looking for either a manual, advice, pointers to same, or all of the above. I need the scope, of course, to debug some Heathkit radios I want to fix & sell, so I can buy some more stuff, and maybe home-brew something for a change, and the head bone's connected to the foot bone, and

BTW, the nc-20 sounds neat. Where can I find out more about it?

73 de N1HDP

Steve Blatman (steve@inkspot.net)
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14 Church Road, Frazer, PA 19355 USA
Tel: (610) 647-0776
Fax: (610) 647-4560

Date: Sun, 21 Mar 1999 18:41:31 -0500
From: Steve <smann@advi.net>
To: "Winston F. Jones" <winjones@ix.netcom.com>
Cc: qrp-1@lehigh.edu
Subject: [36204] Re: [TenTec] Using Shure 444 with Triton IV
Message-ID: <36F583AB.15@advi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Winston F. Jones wrote:

>

> I bought a Shure 444 at a hamfest to use with my Triton IV. It works,

> but requires the gain to be turned to past the 3 o'clock position. It
> seems I recall that the original 444 was a low impedance mic and the
> Triton IV needs a high impedance mic. I think the later Shure 444D was
> made for dual impedance, low and high. Is this correct?

Winston,

The 444D is dual-Z and I have one which I use on occasions when I use SSB with my Omni D. I bought this one used just a couple of months ago because of my previous experience with the Tentec/Shure combo.

About 20 years ago, I had a Tentec 540 (previously called a Triton IV until Motorola advised Tentec that that "Triton" was a trademark of Motorola) and I used a Shure 444 that I purchased new. It was a high-Z mic that worked very well with the Tentec and I received several unsolicited comments of "outstanding audio."

I don't remember a low-Z version of the mic but there possibly might have been.

I don't know why you're having problems resulting in having to run the mic gain so high. Damaged element? Did someone replace the element with a low-Z element? It's easy to unscrew the mic screen and tilt the element out to take a look at it. The element is connected by two wires which run down the neck into the base. If it's not an original Shure element, you should be able to replace it easily. With the 444D there are 3 wires: high-z, low-z, and common.

I've seen various models of Shure mics on sell at hamfests that have been pulled from 2 way service. Some were the same shape and size as the 444 but with a grey case. I almost bought one of these until I read the info on the bottom of the mic which said they were low-Z. It's possible that someone has taken a low-Z element from another Shure mic, even a hand mic, and replaced it.

I like the 444 for use on Tentec rigs and haven't experienced the problems you're having, thank goodness! Good luck in finding the solution.

I did a search on Yahoo and found the Shure web page and emailed customer service and requested the 444D. They mailed it to me free of charge.

Steve, N4EY
Toast, NC

Date: Sun, 21 Mar 1999 17:10:15 -0500
From: George Heron <gheron@nac.net>
To: "'QRP-L'" <qrp-l@Lehigh.EDU>, "'NJ-QRP'" <njqrp@njqrp.org>
Subject: [36205] Atlanticon talk preview #6: "Troubleshooting 101"
Message-ID: <01BE73CB.ECB51BC0.gheron@nac.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

We're getting down to the wire now ... Atlanticon is NEXT WEEKEND! Man, the end of March couldn't have come along fast enough for me, as the line-up of speakers is just **outstanding** for the biggest QRP event on the eastern seaboard. I can't wait to listen to these guys share their pearls of wisdom and adventures at the all-day QRP talks next Saturday. This will be a FUN weekend for all involved!

There are few hands-on guys among us all with greater experience or more solid approaches to fixing radio gear than Steve "Melt Solder" Weber, KD1JV. Steve has an excellent presentation prepared for the Atlanticon attendees ...

"Troubleshooting 101", by Steve Weber, KD1JV

"As an electronic hobbyist, sooner or later you'll want to fix some piece of electronic equipment. It might be a new kit, a piece of commercial gear, or something you've built from scratch. Most kits come with some trouble shooting hints, but they can't cover all possible problems, and you can bet dollars to donuts that the problem you have is not covered in the manual. In order to get your new rig working, you need to have some idea of trouble shooting methodology. Pure blind luck is often not good enough. This talk will introduce you to basic trouble shooting procedures: what to look for, where to start, and what basic equipment can be used. A simple AF-RF signal injector that you can build will be presented."

=====

For the past 8 years, KD1JV has been the sole owner and operator of "Steve's Electronics", a small-town consumer electronics fix-it shop located in the scenic White Mountains of New Hampshire. Steve also designs and produces occasional "limited edition" ham radio kits, such as DDS VFOs, spectrum analyzer scope adaptors, a keyer and most recently, a CB-to-10 meter conversion kit. Steve's been published "73", QRPp and the QRP-NE "72" newsletter. Steve was first licensed in 1968 while still a sophomore in high school, but he actually began homebrewing radio projects in grade school. Now an Extra Class license holder, Steve is actively designing, building and operating HF QRP equipment.

=====

You can see all the Atlanticon details at the NJ-QRP website:
<http://www.njqrp.org/atlanticon/> or by writing an email to EMBOT@NJQRP with
SEND ATLANTICON in the body of the message. (You'll get an immediate reply
containing description, speaker overviews, directions, QRP Events, and
more!)

72/73,

--George Heron, N2APB
n2apb@amsat.org in Sparta NJ (and Baltimore MD now!)
for The NJ-QRP Club ... proud sponsors of the Atlanticon 99 QRP Forum

Date: Sun, 21 Mar 1999 18:50:40 -0500
From: George Heron <gheron@nac.net>
To: "'QRP-L'" <qrp-l@Lehigh.EDU>
Cc: "'NJ-QRP'" <njqrp@njqrp.org>
Subject: [36206] Atlanticon FUN Report 3/21
Message-ID: <01BE73CB.FD132C00.gheron@nac.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

As you can see from the preview of the KD1JV talk (and from the other talk
previews before this), we are going to have one BIG fun weekend at
Atlanticon!

Hopefully all you who have pre-registered (up to 119 people!) have now
received by ground mail your "Welcome Package" from the NJ-QRP organizers
... contains lots of travel tips, hotel info and QRP activity itinerary.
Should be quite useful for all.

(BTW, I inadvertently omitted from the Welcome Package the description of
the exciting KD1JV talk on "Troubleshooting 101" ... *major* apologies to
Steve Weber ... I must be losing what amount of brain I have left as the
Atlanticon dates roll closer and closer. Never fear, Steve's presentation
is completed, submitted and merged into the Proceedings already! Will be a
super presentation, I'm sure.)

And speaking of the Atlanticon Proceedings ... they're complete!!! All
papers are now submitted and all editing/merging has been completed to make
this collection of papers a valuable and major addition to your
bookshelves. And not only does the Proceedings contain the papers from the
7 world-class presenters next weekend (NN1G, NA5N, W4RNL, K5FO, N2CX,
KD1JV, and N1PWU), but it ALSO contains some super interesting QRP articles
on: ugly construction, bandpass filter construction, direct conversion and
superhet xcvr design, QRP software reviews, diplexer topics, low noise

broadband RF amp project, and more! The Atlanticon Proceedings is going to be a *fabulous* collection of QRP material for reference, homebrewing, operating, troubleshooting and design.

Oh, and did we mention that attendance at the Atlanticon QRP Forum is completely FREE??!! And that it includes a copy of the Proceedings for each attendee ... this is bound to be a collector's item, as they will not be reproduced or offered for sale after Atlanticon.

Speaking of collector's items did you catch Paul Harden's update on the Atlanticon Badges currently in production? These are going to be very cool badges (for each of the Atlanticon attendees) that will rival the mystique and notoriety of the NorCal Zombie badges (which will also be available at Atlanticon.) Attendees will certainly not be disappointed in this category! (BTW, the Atlanticon badges contain the pre-registration number which will be used in the door prize drawings throughout Saturday.)

Prizes, prizes, prizes ... holy smoke! We now have over 50 door prizes to be won at Atlanticon: NC20 xvcrr, SW-40+ xcvr, NW80 xcvr, 44-Magnum xcvr, QRPer's Data Books, ZM-2 ATU, Ladder Grabbers, K3CHP's DX QSL Guides, QRP Quarterly subscriptions, bundles of QQ back issues, "Little Red Keys", TiCK kits, MK-33 Pocket Mini-Paddle, W1FB's Design notebook, W1FB's QRP Notebook, HF Antennas for All Locations book, The Joy of QRP book, The History of QRP book, ARRL Handbook CD, ARRL Antenna Book CD, subscription to QEX, and more! Man, attendees will have over 50% probability of walking home from Atlanticon with a very nice door prize! THANK YOU to all the generous donating vendors, clubs and hams!

Atlanticon weather ... one of the local guys in Maryland/Delaware area is going to be giving us some updates this week, but I can speak from experience too now that I'm down here. (Coincidentally, I've recently come down here to the Baltimore area with a job change and am located only 15 minutes from Timonium! More on this later.) Weather over the last 4 days has been splendidly mild during the days (50'-60's and sunny). Today has been quite rainy but it's expected to clear up soon. In comparison to the northern Jersey area I'm coming from, it feels like spring is about to bloom, with birds in the air and the sweet warm smells we all like this time of year.

If you plan on attending the TOUR for the HUBBLE GROUND STATION at the Space Sciences Institute with us, departing at 2:30 from the hotel lobby on Friday afternoon, please RESERVE your spot by emailing to Dean N2TNN (n2tnn@ifu.net) that you will be coming. There's room for only 30 people to participate in the tour, so please let us know if you want to attend with us ... should be fun!

I took another trip over to our Atlanticon QRP Forum headquarters (at the Holiday Inn Select hotel), this time just to see how things are proceeding

there. The staff is getting ready for us all, *and* for the hundreds and hundreds of other hams coming into the area next weekend for the Greater Baltimore Hamboree and Computerfest!. The hotel manager assured me that they can handle up to 150 QRPers at our Atlanticon talks and evening QRP hospitality suites.

I've got to tell you, the NJ-QRP club members are just incredibly excited in making all the planning and logistics come to a head this week. There are all sorts of hands and gears in motion (and a couple of surprises planned ;-). The club is really pleased to be able to "give back" to QRPers all over North America by hosting the Atlanticon QRP Forum. The Rainbow Tuner kits, the Fireball 40 kits, and all other sorts of projects along the way have fueled our ability to put on a "free" Atlanticon for the QRP community at large. This is a wonderful hobby, with incredibly talented and motivated hams all over the world ... this is our way of helping to keep it all going strong.

We sincerely hope everyone enjoys Atlanticon. Please let any of us Jersey QRPers know if there's something we can do to help make your travel and stay at Atlanticon more enjoyable and QRP-fun-filled. And if you haven't yet signed up, there is still time and room to do so!

72,

--George Heron, N2APB

n2apb@amsat.org

for the NJ-QRP Club at <http://www.njqrp.org>

see Atlanticon details at <http://www.njqrp.org/atlanticon/>

End of QRP-L Digest 1402
